

AMERICAN NURSERYMAN

The Nurseryman's Forte: To Make America More Beautiful and Fruitful

OCTOBER 1, 1958



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| 4 to 5 ft., whips | \$1.90 | \$1.65 | \$1.50 |
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| 5 to 6 ft., whips | 2.25 | 2.00 | 1.80 |
| 6 to 7 ft., whips | 2.75 | 2.50 | 2.25 |
| 5 to 6 ft., br. | 2.75 | 2.50 | ... |
| 6 to 7 ft., br. | 3.35 | 3.00 | 2.70 |
| 7 to 8 ft., br. | 4.00 | 3.60 | ... |

IMPERIAL LOCUST

(Plant Pat. No. 1605)

1-yr. top, 3-yr. root, once transplanted.

| | Each 10 to 29 | Each 30 to 99 | Each, 300 and up |
|---|------------------|------------------|---------------------|
| 3 to 4 ft., whips. \$1.85 | \$1.65 | \$1.45 | ... |
| (The above grade not to be sold to consumer.) | | | |
| 4 to 5 ft., whips. 2.00 | 1.80 | 1.60 | \$1.50 |
| 5 to 6 ft., whips. 2.30 | 2.05 | 1.85 | 1.70 |
| 6 to 7 ft., whips. 3.00 | 2.70 | 2.25 | ... |
| 4 to 5 ft., br. 2.60 | 2.30 | 2.05 | 1.90 |
| 5 to 6 ft., br. 3.00 | 2.70 | 2.40 | ... |
| 6 to 7 ft., br. 3.60 | 3.20 | 2.85 | ... |

MAJESTIC LOCUST

(Plant Pat. No. 1534)

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|--------------------------|------------------|------------------|---------------------|
| 7 to 8 ft., br. | ... | \$4.75 | ... |
| 8 to 10 ft., br. | ... | 6.75 | ... |

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(Plant Pat. No. 1619)

1-yr. top, 3-yr. root, transplanted.

| | Each 10 to 29 | Each 30 to 99 | Each, 300 and up |
|---|------------------|------------------|---------------------|
| 3 to 4 ft., whips. \$1.85 | \$1.65 | \$1.45 | \$1.35 |
| (The above grade not to be sold to consumer.) | | | |
| 4 to 5 ft., whips. 2.00 | 1.80 | 1.60 | 1.50 |
| 5 to 6 ft., whips. 2.30 | 2.05 | 1.85 | 1.70 |
| 6 to 7 ft., whips. 3.00 | 2.70 | 2.25 | 2.10 |
| 4 to 5 ft., br. 2.60 | 2.30 | 2.05 | 1.90 |
| 5 to 6 ft., br. 3.00 | 2.70 | 2.40 | 2.25 |
| 6 to 7 ft., br. 3.60 | 3.20 | 2.85 | 2.65 |
| 7 to 8 ft., br. 4.10 | 3.70 | 3.30 | ... |

SUNBURST LOCUST

(Plant Pat. No. 1313)

1-yr. top, 3-yr. root, transplanted.

| | Each 10 to 29 | Each 30 to 99 | Each, 300 and up |
|---|------------------|------------------|---------------------|
| 3 to 4 ft., whips. | ... | \$1.40 | \$1.30 |
| (The above grade not to be sold to consumer.) | | | |
| 4 to 5 ft., whips. \$2.00 | \$1.80 | 1.60 | 1.50 |
| 5 to 6 ft., whips. 2.40 | 2.15 | 1.90 | 1.75 |
| 6 to 7 ft., whips. 2.80 | 2.45 | 2.20 | 2.05 |
| 4 to 5 ft., br. 2.55 | 2.25 | 2.00 | 1.85 |
| 5 to 6 ft., br. 2.95 | 2.60 | 2.35 | 2.20 |
| 6 to 7 ft., br. 3.45 | 3.10 | 2.75 | ... |



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The Nurseryman's Forte: To Make America More Beautiful and Fruitful

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THE CASE OF THE BUSY BOOKIE...



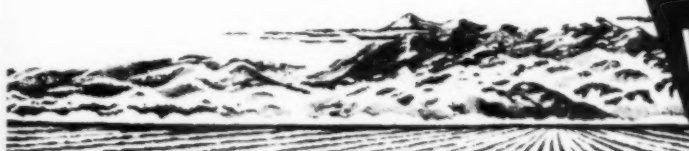
It was one of those normal days at Howards of Hemet . . .
 . . . hectic! They were booking orders faster than the No. 1 window at
 Santa Anita . . . taking orders from "sure betting nurserymen" for
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AMERICAN NURSERYMAN

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Editorial

ADULT EDUCATION

An estimate of 30,000,000 to 40,000,000 persons in this country enrolled in adult education was reported in a radio statement recently. This number seems far too high, but it conceivably includes a broad variety of projects. Probably they range from public night school classes in English, civics and other subjects, as well as instruction in mechanical or craft courses for hobbies, all the way through regular college and postgraduate classes to noncredit courses in great books and allied subjects, as well as training in correspondence schools and technical institutes, corporation employee classes and a host of other enterprises. The variety is not important, but the great number is, because it implies a vast desire for knowledge on the part of the American public.

In the subjects enumerated for adult classes or courses of any type, horticulture is rarely mentioned. There are a few classes, here and there, but not many. It would seem that the number should be far larger, considering the vast number of home gardeners there are in the United States and the interest that they indicate in the occupation from time to time.

In some gardeners it is a sustained interest, which leads them to learn more about horticulture in general and the intricacies of home garden subjects in particular. Those who follow the book reviews in this magazine will be struck by the number of volumes which come off the press nowadays, in comparison with a few years ago. Garden magazines are growing in circulation as well as in number, also. These things do indicate an increasing interest on the part of the public in plants.

The matter is brought up here because of the opportunity which would appear for many more nurserymen to follow the example of a few, which has been the subject of

report in these columns from time to time, in fostering projects which would encourage home gardeners in their search for information and to foster adult classes in education in this subject.

BUSINESS PROSPECTS

Since autumn began, some economists have declared that business is making a quick recovery from the recession that began last year, while others, perplexed over the statistics, apprehend that the rebound may be followed by a reaction. The point of view depends upon the industry. Some industries are finding the bottom of the recession flattening out, or progress on the upward side to be slow. Others, and among them important industries, report that the second half of the year will turn out much better than was expected. Much depends upon the type of product or service.

Among those favored by conditions is the nursery industry. Home building starts have reached figures considerably higher than anticipated, and the housing demand apparently continues. Consumer spending has reached a high figure, and materials for the home and garden are in demand.

The factor which makes guidance by previous experiences difficult is the tremendous increase in population which has been and still is taking place. Many expect it to continue for at least another decade. This has emphasized home demands, and, so long as such demands continue, nurserymen should enjoy good sales, with some variation according to the locality. The prospects are there, but sales efforts are as necessary as ever to get the full share of the consumers' dollars.

MAINTENANCE WORK

Many retail nurserymen decline to render customers any form of maintenance service, declaring that it does not pay and that it detracts, in time and attention, from profitable sales activity. Some firms, however, including some rather large-sized landscape firms, offer to maintain customers' lawns and gardens; they feel that it is an enduring form of contact with sales prospects. They point out examples in other fields, such as automobile, home appliance, TV and radio dealers and farm equipment distributors, who believe that the double form of activity is partly a

necessity, to be certain that proper service is rendered to customers' equipment, and partly a channel to more sales.

For proper operation, the maintenance service is usually conducted as a separate department, with a service manager, and sometimes as a separate firm, with varying forms of interlocking contacts. The operation of a service department largely requires the hiring and close direction of labor, while the emphasis in the sales department is on other business aspects. Hence the disinclination of many retail nurserymen to undertake both forms of activity themselves.

In some communities, the desired advantage is obtained by close cooperation between the local nurseryman or nurserymen and the lawn and garden maintenance men. There can be mutual benefits. The maintenance man may avail himself of the nurseryman's plant knowledge to recommend desirable trees, shrubs or other plants to a homeowner who desires to make landscape additions or replacements.

Frequently a maintenance man undertakes this type of planting anyway, buying the stock at wholesale, and it would be better if he made the most of the opportunity, which he can do with a plantsman's advice. The maintenance man, moreover, may direct a homeowner to a nurseryman, possibly for a consideration, if large plantings or replacements are contemplated. In return, of course, the nurseryman is frequently able to recommend the maintenance man to a new homeowner and direct other work his way.

Whether the contact between retail nurserymen and maintenance men at the local level is made on an individual basis or through a cooperative effort of all or many of those in the locality, there is no question that there are to be gained many decided advantages to gardening in general and to the commercial men by such action.

BORN on August 28 to Hugh Russell Mills, sales manager, Carl Shamburger Nursery, Tyler, Tex., and his wife, Joan Kilner Mills, former managing editor of the American Nurseryman, was a baby daughter, named Christine Joan. The new arrival weighed 6 pounds, 8½ ounces and is the couple's second daughter, the first being Constance Colleen, now 3 years old.



Officers elected by the Southern Nurserymen's Association at Richmond, Va. for the 1958-59 season: Left to right, George Coulter, James Stubbs, Hubert Nicholson, Dan Reynolds, Ed Fraser and Robert Boyd.

Southerners Convene at Richmond

Hear Talks on Lawn Grasses, Ground Covers and Southern Research

Historic Richmond, Va., was the site of the 59th annual convention of the Southern Nurserymen's Association held at the Hotel John Marshall, August 24 to 26. Even rain during most of the convention did not spoil the activities nor dampen the spirits of the 240 registrants. As usual, the social events were well planned, with the highlights being the bus tour of Richmond and the past presidents' banquet.

The educational program proved highly instructive, interesting talks on garden center merchandising, the landscape nurserymen's skills and research and the nurserymen holding the spotlight. Carrying on its fore-

sighted work, the association provided time for a meeting of workers in ornamental research from the southern states, who discussed the projects under way in their respective states.

Recipient of the Slater Wight award at the banquet was Henry B. Chase, Chase Nursery Co., Inc., Chase, Ala., who was not in attendance, the award being accepted by his nephew, Henry Homer Chase. Adding to the convention was the trade show featuring 30 exhibits of supplies and plant materials.

Election

Concluding the business meeting Tuesday afternoon, August 26, was

the election of officers. Hubert Nicholson, Commercial Nursery Co., Decherd, Tenn., was elevated to the presidency; Ed Fraser, Southern States Nurseries, Inc., Macclenny, Fla., was chosen vice-president. Re-elected director from chapter 1 was George Coulter, Carolina Nurseries, Inc., Charlotte, N. C.; chapter 2, Ed Fraser, and chapter 4, Tom Dodd, Jr., Tom Dodd Nurseries, Inc., Semmes, Ala. Newly elected director representing chapter 3 is Robert Boyd, Globe Nurseries, McMinnville, Tenn. James Stubbs, Atlanta, Ga., was re-elected treasurer.

Other activities at the business meeting were the selection of Atlan-



The formal and the final presentations of this year's Slater Wight award. At the left, Henry Homer Chase accepts the award on behalf of his uncle, Henry B. Chase, from Charles G. Tennent at the Southern Nurserymen's Association convention at Richmond. At right, Mr. Chase is shown presenting the award to his 88-year-old uncle, one of the founders and early presidents of the association, at Chase, Ala.



Featured speakers at the annual convention of the Southern Nurserymen's Association: Left to right, George Rose, Shenandoah, Ia.; Donald M. Hastings, Jr., Atlanta, Ga.; Tokuji Furuta, Auburn, Ala., and Owen B. Schmidt, Narberth, Pa.

ta, Ga., as the 1960 convention site for the Southern Nurserymen's Association and the confirmation of Jacksonville, Fla., as next year's meeting place. The membership report by Hubert Nicholson, membership committee chairman, showed 259 active, seven associate and 23 affiliate members.

Circular Response

Mr. Nicholson related that 4,000 copies of a circular had been mailed to southern nurserymen who did not belong to any nurserymen's organization. It asked if more information was desired about their state, regional or national organization, which could be obtained by sending in a detachable postage-paid reply card. Showing the amount of interest was the 10 per cent reply, stated Mr. Nicholson.

A report by the secretary-treasurer, Leo B. Scott, Spartanburg, S. C., showed the S. N. A. to be in excellent financial position, having over \$13,000 in the treasury, whereas it had only a balance of approximately \$1,900 in 1950.

Reporting as chairman of the legislative committee was Richard H. Jones, Jones Ornamental Nursery, Nashville, Tenn. He advised the nurserymen to be aware of the changes in quarantines in the southeast, namely those of the soybean nematode, imported fire ant, white-fringed beetle and the Japanese beetle. In addition, Mr. Jones reviewed other particulars pertaining to the wage-hour case, charging off liners, postal rates, antibillboard legislation and the nursery trucking exemption.

The business session was concluded with the necrology report presented by Rudolf Anderson, Mountain View Nurseries, Greenville, S. C.,

chairman of the committee. The resolutions committee report was delivered by Henry Homer Chase.

After a fellowship hour and buffet dinner Sunday night, August 24, convention activities proceeded the next morning with a business session called to order by S. N. A. president Dan Reynolds, L. A. Reynolds Co., Inc., Winston-Salem, N. C. He called on Ed Fraser for the invocation, after which he delivered his address. President Reynolds reviewed some of the accomplishments of the association during the past year, mentioning first the united front presented at the important fire-ant hearing last November at Memphis, Tenn., due to action by the S. N. A. Prior to this hearing the S. N. A. contacted the presidents of the various state associations, as well as all state quarantine officials. The board of the S. N. A. also met prior to the hearing.

Attention was called by Mr. Reynolds to the lead taken by the S. N. A. in uniting and compiling research information of ornamental research workers in the 10 southeastern states, under the direction of James Patterson, Patterson Nursery, Albany, Ga., chairman of the S. N. A. education and promotion committee. He referred to the membership promotion and the numerical size of the membership, as previously reported, and noted that this year's convention combined the regular annual convention and trade meet.

Concluding the business session, A. S. "Ollie" Gresham, Jr., Gresham's Nursery, Richmond, as chairman of a committee to report on the association's buyers' guide, recommended abolishing it. A motion was then passed to accomplish this.

Next on the program was a discus-

sion of "Lawn Grasses and Ground Covers," by Profs. A. G. Smith, Jr., and Albert S. Beecher, Virginia Polytechnic Institute, Blacksburg. Professor Smith related that studies on lawns for Virginia have been made by V. P. I. since 1946.

Research has been instigated on the behavior and effect of management; i.e., fertilization, mowing, etc., on grasses. Professor Smith showed colored slides of Bermuda and zoysia grass plots at the Warsaw experimental station. He also called attention to the bulletin recently published by V. P. I. entitled "Lawns for Virginia."

Professor Smith believes too much emphasis has been placed on seed mixtures and not enough on seed-bed preparation. Drainage is important, he added, for the roots need oxygen. The bed might even need drain tile to prevent the roots from being drowned.

He related that he cannot get Merion bluegrass to survive through the summer. He added that no irrigation is used at the experiment station, the weather being accepted as it comes. Merion bluegrass, he said, has developed rust in the plots. If a grass besides bluegrass is used in a mixture, Red Top is preferable to rye grass, as the latter will choke out the other grasses employed. A quicker start is obtained by using Highland bent or Red Top than by using bluegrass alone. Professor Smith pointed out that fescues cannot stand full sun; overfertilization can kill a lawn; potash will burn lawns quickly; no bluegrass can stand close mowing, especially in hot weather, and fertilizers have been burning lawns in dry years.

Lawns and Ground Covers

Showing slides in color on the uses of lawn grass and making a few comments on ground covers, Professor Beecher said grass is used to make a setting for plants. In determining what type of lawn to have, several decisions have to be made. What use will be made of the carpet of grass? This will determine whether fine or coarse grass will be planted. If an exhibition type of lawn is desired, constant care will be required. If a green lawn is desired throughout the year, one must be careful in the use of zoysia, as it turns brown with the first frost in the mountainous areas in Virginia.

Turning to ground covers, Professor Beecher said initial cost and maintenance are involved in the selection of plants. Weeding is a problem until the plants have formed a

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Garden Center Activities Stressed at Texas Meet

By George M. Fisher

More than 500 persons attended the 21st annual convention of the Texas Association of Nurserymen. The conclave was held at Austin, capital city of Texas, August 24 to 27 at the Commodore Perry hotel.

Emphasis this year, in the featured educational sessions, was placed on garden center activities and landscaping. One half-day period was devoted to each on the program. During the past year a new garden center group was organized as an integral part of the T. A. N. A series of social events for both adults and juniors provided a pleasant time for all members and their families.

The hard-working general chairman of the convention was Gene Howard, Howard Montopolis Nursery, Austin. Assisting him and officially directing all activities was the association's executive secretary, B. R. Fullingim, Austin. Mrs. Howard and Mrs. Fullingim were co-chairmen of the ladies' activities and the Junior Tanners' activities committees. Co-chairmen of the decorations committee, which used Tyler-grown roses contributed by several Tyler area growers, were Mr. and Mrs. G. L. Ryan, Austin. Chairman of the official buyers' guide committee was Steve Verhalen, Verhalen Nursery Co., Scottsville.

Another successful feature of this year's convention was the inclusion

of two full programs for young people—that of the Tanners, for the junior and senior high school ages, and that of the Junior Tanners, for the elementary school age group. They each had their own hospitality hours and social functions, while their parents were attending business and social sessions. In addition, a fine program of social events was conducted for the ladies at the convention.

New Officers

At the concluding business session, officers for the 1958-1959 year were elected. John Van Valkenburgh, Van Valkenburgh & Vogel, Inc., Dallas, was elected T. A. N. president. This firm of landscape architects and landscape nurserymen is one of the oldest and largest landscaping companies in Texas and will be celebrating its 30th anniversary in business this fall.

Elected first vice-president was Jack Jones, Southwest Landscape Co., Dallas, most recently recognized for his fine job as general chairman of the A. A. N. convention at Dallas last July. Second vice-president is L. J. Hilscher, Hilscher Nursery & Florist, Fort Worth.

Four new directors were elected to the board of the T. A. N. as follows: Region 2, Sterling Cornelius, Cornelius Nurseries, Houston; region



A highlight of the T. A. N. convention was the presentation of the Arp award to Frank S. Cornelius, left, by Dr. Richard P. White, recipient of the award in 1957.

3, Carroll W. Wilson, C. E. Wilson Nurseries, Jacksonville; region 5, Hershall Raef, Westcliff Nursery Co., Fort Worth, and region 6, George H. Vineyard, Vineyard Landscaping Co., Midland. Two holdover directors are Wash Storm, Storm Nursery, Premont, region 1 and L. C. House, House's Azalea & Camellia Gardens, Dallas, region 4. Director at large is L. A. Dean, retiring president of the association.

Presidents of the six geographical regions of the T. A. N., elected to office for the ensuing year at regional meetings held before the convention, were introduced at the Wednesday morning session, as follows: Region 1, R. L. Wallace, Victoria Nursery & Landscape Service, Victoria; region 2, John L. Botter, Altex Nursery Co., Alvin; region 3, Carroll W. Wilson; region 4, B. B. Blalock, Blalock Landscape Service, Dallas; region 5, R. T. McDuff, Pope Nursery, Fort Worth, and region 6, C. A. "Art" Sellman, Green Thumb Nursery, El Paso.

The cities of Fort Worth and Dallas engaged in a hotly contested duel for the privilege of being named the 1960 convention site at the Wednesday morning session, with Dallas finally being chosen as host city in 1960. Brownsville, selected at the 1957 convention, was reconfirmed as the location for the 1959 T. A. N. convention, August 23 to 26. George H. Pletcher, Jr., Pletcher's Floral & Nursery, Harlingen, will be general chairman of the convention. Already hard at work on the job, he announced that 97 spaces for the trade show had been sold for the 1959 convention.

This year's trade exhibit, pro-



New officers of the Texas Association of Nurserymen, elected at the group's convention at Austin, Tex.: Left to right, Jack Jones, first vice-president; John Van Valkenburgh, president; L. A. Dean, outgoing president, and L. J. Hilscher, second vice-president.



Officers of the Texas Landscape Association and the guest speaker sponsored by the T. L. A. at the Texas Association of Nurserymen's convention at Austin: Left to right, George Fisher, secretary-treasurer; Prof. L. R. Quinlin, and Otto E. Scherz, president.

claimed the finest ever held, was opened to the general public on Tuesday afternoon. It was announced by the Dallas delegation that at the 1960 convention a Cadillac automobile will be given as a prize to one of the nurserymen attending.

Preconvention activities included the setting up of the commercial exhibits on Saturday in the exhibit hall on the third floor of the Commodore Perry hotel. The exhibits were opened to the conventioners at 1 o'clock Sunday afternoon, August 24. At 2 o'clock Sunday afternoon, the T. A. N. board of directors met in the regular preconvention business session in the Commodore Deck Club. The annual meeting of the Texas Landscape Association, an all-afternoon session, was held in the Blackstone suite. The T. L. A. president, Otto E. Scherz, landscape architect of Scherz Nursery Co., San Angelo, presided at the session, which is reported elsewhere in this issue. Conventioners were welcomed Sunday evening at a reception-hospitality hour beginning at 6 o'clock in the Commodore Deck Club.

Registration got under way Monday morning in the hotel lobby and continued until noon. Previous to this, the exhibitors were treated to an early morning breakfast at 6:45. The ladies of the convention were served a brunch at 9 o'clock in the Commodore Deck Club, and a full round of activities got under way for the Tanners and Junior Tanners. The first half-day education session with the Garden Center Program opened at 9 a. m. in the Constellation room. Steve Dodd, Dallas, president of the newly formed garden center section, presided as moderator.

The first guest speaker on the program was D. Murray Franklin, Baltimore, Md., publisher-editor of the Garden Supply Merchandiser magazine. In his address, titled "The Shape of Things to Come in the Garden Center Industry," Mr. Franklin noted that there are now recognized 42 general selling classifications in garden supplies. The national average sales potential in the garden center market is \$88 per year per consumer-homeowner. In the best sales areas this figure increases, ranging from \$100 to \$150.

Interest in gardening has passed the stage at which buying was largely confined to garden club members. The garden center industry now has an annual potential of \$4 billion in America. The nurseryman should logically emerge as the dominant factor in this market, but the trend indicates that he will not remain in the picture unless he does a better job of merchandising and aggressive selling. The customer wants to shop in a garden center that provides all services and supplies all needs of the gardener. The buying public in general does not consider plants as a separate item to be purchased from a nursery dealing only in plants.

The competitors of the garden center are other businesses seeking the consumer dollar and other retailers selling the same type of garden supplies. It will be necessary in meeting competition to do better merchandising and to offer customers the opportunity to buy on credit, as other retail businesses do. Credit buying should be promoted and advertised, and the gardening customer should be assisted in buying for his specific purpose and need. The

[Continued on page 116]

TEXAS LANDSCAPE MEET

Otto E. Scherz, Scherz Nursery, San Angelo, presided at the annual meeting of the Texas Landscape Association and the annual board meeting that followed. The meeting was held at 2 o'clock Sunday afternoon, August 24, at Austin, Tex., immediately preceding the regular convention session of the Texas Association of Nurserymen.

No election of officers took place at the meeting, as all officers and directors were elected at the 1957 meeting for a regular 2-year term of office. Besides President Scherz, other current officers of the association are Ralph Ellis Gunn, Gunn & Associates, Houston, vice-president, and George Fisher, Arp Roses, Inc., Tyler, secretary-treasurer.

Two new members received at this meeting are Dr. Robert P. Ealy, head of the landscape design curriculum, Oklahoma State University, Stillwater, and C. O. Smith, Jr., landscape architect, Wichita Falls, Tex. Two guest landscape architects present at the meeting were Henry Dan Heyn, Dallas, and John Teas, Belaire.

T. L. A.-Sponsored Teachers

President Scherz announced that the guest speaker for this year's landscape session at the T. A. N. convention was Prof. L. R. Quinlin, professor of landscape design at Kansas State College, Manhattan. H. Durward Thompson, landscape architect and T. L. A. member, Corpus Christi, also was announced as a speaker at this session. In cooperation with the T. A. N., the association regularly sponsors a guest speaker in the field of landscaping. Plans for obtaining a speaker for the 1959 meeting were laid.

The date for the 1959 meeting was set for Sunday, August 23, at Brownsville, Tex., in connection with the T. A. N. convention to be held at that city. The regular midyear board of directors' meeting will be held at College Station in 1959, to coincide with either the annual landscape seminar or the nursery management short course.

After routine business and reports by the officers and committee chairmen, a workshop forum was moderated by Howard W. Locke, New Braunfels. The main subjects discussed were professional ethics and collaboration with related professions.

After adjournment of the general meeting of the Texas Landscape Association, coffee was served to guests and members. The T. L. A. board of directors then held its meeting.

National Shade Tree Conference

Pruning, Municipal Arboriculture Featured at Asheville Sessions

By Noel B. Wysong

Amid the scenic surroundings of the Great Smoky mountains, the Blue Ridge parkway and other spots of outstanding beauty, the 34th annual meeting of the National Shade Tree Conference was held August 25 to 29 at Asheville, N. C. The 5-day meeting was attended by 702 registered members and guests who came from all sections of the United States and Canada.

In point of attendance, this convention was the second largest in the history of the organization, being exceeded only by the meeting held last year at Philadelphia, which was attended by 716 persons.

The educational sessions, held in the auditorium of the city of Asheville, were informative and well attended. Additional educational and social attractions included a keynote luncheon address by the Honorable Luther H. Hodges, governor of the state of North Carolina, and a tour of the Biltmore estate, which is the birthplace of forest management in the United States and the site of the art-filled mansion formerly owned by multimillionaire George W. Vanderbilt.

At an open meeting held Wednesday evening, Dr. L. C. Chadwick, Ohio State University, Columbus, presented a series of excellent slides and a discussion of European plants and gardens, and arboricultural supplies were displayed and demonstrated by some 33 manufacturing firms and dealers in a commercial

exhibit and field demonstration. The social program was rounded out by a cocktail and hospitality party held in the George Vanderbilt hotel and by the annual banquet, at which entertainment was provided by professional speaker Edward Harding, Washington, N. C.

The ladies' program included a conducted trip through Biltmore forest and a tour of the Biltmore house and gardens; a bus trip to the Cherokee Indian reservation, and visits to other points of interest. The young folks were treated to a swimming party at Asheville's Recreation park, attended a get-acquainted party in the Battery Park hotel and were included in tours of the Biltmore estate.

Officers Elected

Business affairs of the conference were given attention at two meetings of the executive committee and at the business sessions held Tuesday and Thursday. Elected officers of the National Shade Tree Conference for the coming year are the following: President, F. Earle Martin, Cedarvale Tree Experts, Ltd., Toronto, Ont., Canada; vice-president, J. C. Kenealy, Lower Merion township shade tree commission, Ardmore, Pa.; secretary-treasurer, Dr. L. C. Chadwick, department of horticulture, Ohio State University, Columbus; editor, Dr. Paul E. Tilford, executive secretary of the National Arborist Association, Wooster, O.

Joseph A. Dietrich, park superintendent, Greenwich, Conn., was elected for a 3-year term to the nomenclature and standards committee. Holdover members on this committee are Chairman Richard J. Campana, Illinois Natural History Survey, Urbana, and John Stashenko, Elmcroft Tree Service, Stamford, Conn.

Elected to the executive committee for a 3-year term and representing regions II, IV and VI, respectively, were George T. Lewis, Lewis Tree Surgeons Co., Media, Pa.; Karl Kuemmerling, Karl Kuemmerling, Inc., Canton, O., and L. M. F. Harriess, Oakland park department, Oakland, Calif.

Elected to the membership committee for regions II, IV and VII, respectively, were Carl J. Schiff, arboriculturist, department of parks, Brooklyn, N. Y.; F. J. Habberthier, Habberthier Tree Service, Creve Coeur, Mo., and Cedric G. Dobbin, park superintendent, township of York, Toronto, Ont., Canada.

Research Fund Report

Numerous matters of general interest were discussed at the business session. The report covering the activities of the memorial research fund committee and the status of the project was given by Dr. Paul E. Tilford, chairman. Stating that at present the research fund contained approximately \$5,000, he said it was

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New officials of the National Shade Tree Conference elected at Asheville, N. C.; Left to right, J. C. Kenealy, vice-president; Marvin E. Fowler, retiring president; F. Earle Martin, president; Dr. L. C. Chadwick, secretary-treasurer, and Dr. Paul E. Tilford, editor.

Insurance, Safety, Topics At Arborists' Meeting

By Noel B. Wysong

The annual summer meeting of National Arborist Association, Inc., was held August 26, in the Battery Park hotel, Asheville, N. C., with approximately 150 members present. The program included presentation of papers on subjects particularly applicable to the tree service industry; a business session, for discussion of association activities and election of officers, and the annual banquet.

New Officers

Elected to office for the coming year were the following: President, Ray Gustin, Jr., Gustin Landscape & Tree Service, Rockville, Md.; first vice-president, James T. Turner, Turner Tree Service, Atlanta, Ga.; second vice-president, Freeman L. Parr, Parr & Hanson, Inc., Hicksville, N. Y.; secretary, George T. Lewis, Lewis Tree Surgeons, Media, Pa., and treasurer, Ernest J. Chase, Chase Tree Service, Keene, N. H. Elected to the board of directors were John Z. Duling, Duling Tree Expert Co., Muncie, Ind., and Edwin E. Irish, Charles F. Irish Co., Cleveland, O. Dr. Paul E. Tilford, Wooster, O., was retained as executive secretary of the association.

The educational session was called to order by President Henry Vaughn-Eames, Westfield, N. J., who, after welcoming those present, introduced the first speaker on the program, Oscar F. Warner, landscape forester, Waterbury, Conn. With "Insurance Requirements of the Arborist" as his

topic, Mr. Warner discussed types of insurance coverage that are available to owners of tree service companies, and mentioned numerous details and items often overlooked in purchasing insurance. He suggested that, since insurance is an exceedingly complex business, arborists should buy insurance through a capable and reliable agent.

Lists Insurance Services

He listed the services an arborist should expect and receive from the insurance company he deals with as follows: (1) A study of the hazards connected with the work performed, and recommendations calculated to reduce such hazards; (2) prompt handling of all claims; (3) an annual review of the business, in order that proper insurance coverage may be provided, and (4) assistance from the safety engineer of the insurance company in conducting a safety program for the arborist's employees.

With reference to workmen's compensation insurance, Mr. Warner said insurance of this nature is mandatory in almost every state. Even in areas where such insurance is not compulsory, it should be carried, since the owner of the tree service company is liable if a workman is injured on the job. It is desirable that the provisions of the policy should not be limited to any one state or section of the country, but should have an all-states endorsement.

To obtain the best protection, he said, the arborist should establish a code classification of his payroll according to the nature of the work performed; that is, nursery, landscape, tree service and other fields. The arborist should establish adequate safeguards to prevent the employment of minors, require a physical examination of all new employees and obtain annually from his insurance agent a record of claims paid and how all claims were settled.

With regard to personal liability and property damage insurance, the arborist should be sure the limits are high enough to meet all suits that might be filed against him. Mr. Warner suggested short term insurance to cover special types of highly dangerous work that might be performed only occasionally.

Automobile and truck insurance should cover leased vehicles as well as those owned or nonowned but used in business operations. Fire insurance can be combined with theft insurance and should be equal to at least 80 per cent of the replacement value of the insured property.

He warned, however, against insuring for more than the fair market value, since, under such circumstances, one cannot collect on a total loss. In business partnerships, accident, health and life insurance should be carried on each partner, so that survivors would have sufficient funds to purchase the interests or stock of the deceased.

"Safety Pays"

"Safety Pays in Dollars and Cents and Public Relations" was the title of the paper presented by D. E. Featherstone, safety supervisor, Duke Power Co., Charlotte, N. C. In his introduction, Mr. Featherstone made the terse statement, "There is no profit in an accident except as it may provide information on how to avoid such accidents in the future." In 1957 alone, some 95,000 people were killed in accidents, while the yearly cost of accidents was more than \$11 billion.

Stating that safety and public relations are important factors in the success of any business, Mr. Featherstone said that a business organization is judged by the actions of its employees who are most often seen by the public. Neatness, courtesy and competence of all employees are important as a means of establishing a good reputation for the company.

Mr. Featherstone advocated a continuing safety program in all business firms as a means of developing

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Officers of the National Arborist Association, newly elected at the group's meeting held in conjunction with the National Shade Tree Conference at Asheville, N. C.: Left to right, Freeman L. Parr, second vice-president; Ray Gustin, Jr., president; George T. Lewis, secretary, and Dr. Paul E. Tilford, executive secretary. Not shown above are James T. Turner, first vice-president, and Ernest J. Chase, treasurer.

Highway Program Outlined at Kansas Convention

By Ralph B. Ricklefs, Jr.

W. A. Flynn, the Garden Place Nursery, Abilene, Kan., was the host for the convention of the Kansas Association of Nurserymen September 4 and 5. While the association members were arriving, tours of the Eisenhower museum, Abilene, were conducted, and the facilities of the Abilene Country Club were open to those who wished to play golf.

Officers elected at the business session held later in the meeting were the following: President, G. M. Sheppard, Village Nursery, Prairie Village; vice-president, Donald Roepke, J. H. Skinner & Co., Topeka, and secretary-treasurer, Dr. Ray A. Keen, Kansas State College, Manhattan. Directors are Howard Doman, Willis Nursery Co., Ottawa, the immediate past president; C. E. Prater, Twin Valley Nursery, Salina, and Guy Matthews, Manhattan, holdover director.

After an excellent chicken dinner, prepared and served Thursday evening, September 4, by the ladies of the farm bureau, John Pinney, Willis Nursery Co., Ottawa, Kan., presented an illustrated talk on native wild flowers of Kansas. For many years Mr. Pinney's hobby has been seeking and photographing all native wild flowers, particularly those of Kansas. He first showed a number of slides of the early spring woods flowers, including bloodroot, erythronium violet, toothwort, jack-in-the-pulpit, columbine and Phlox divaricata. It was noted that the woods flowers are always the first ones of the season to bloom, because of the protection and natural warmth of the forest floor.

The slides of wild flowers of the prairies were shown next. Of interest



Newly elected officials of the Kansas Association of Nurserymen, shown at the group's convention at Abilene: Left to right, Howard Doman, immediate past president and director; Donald Roepke, vice-president; G. M. Sheppard, president; Dr. Ray A. Keen, secretary-treasurer, and Guy Matthews and C. E. Prater, directors.

was the fact that Kansas has six species of true orchids native to its woods and prairies. Slides of the many species of sunflowers were shown. Mr. Pinney explained that the large sunflower popularly thought to be the state flower of Kansas was actually taken from Kansas to Russia. There it was developed to the large, many-seeded flower known today. From Russia, by way of Russian immigrants, it was returned to Kansas and cultivated. The true Kansas state flower is *Helianthus annuus*, or true sunflower.

A. A. N. Chapter Meets

After the program, the Kansas chapter of the American Association of Nurserymen met. Howard Doman, Ottawa, president, and Gene Wilson, Holsinger Nurseries, Kansas City, secretary, were present at the meeting, which was held for the purpose of electing a delegate to the A. A. N. convention, in 1959 and 1960. A report of the 1958 convention at Dallas was given by Fred

Schnitzler, Wichita. Ralph B. Ricklefs, Sr., Kansas Landscape & Nursery Co., Salina, was elected for the 2-year term as delegate. Ralph Skinner, J. H. Skinner & Co., Topeka, was elected as alternate delegate. Dr. Ray A. Keen, secretary of the Kansas Association of Nurserymen, called attention to the fact that July 5, 1958, was the 20th anniversary of the Kansas chapter of the A. A. N. He also exhibited the original charter of this nurserymen's organization.

With an official registration of 47 members on Friday, September 5, the meeting was opened by an invocation given by Fred Schnitzler. Mr. Samuelson, the mayor of Abilene, then extended the official welcome to the city. Vincent K. Bailey, J. V. Bailey Nurseries, St. Paul, Minn., and director of region IV of the A. A. N., opened the morning session with an explanation of the fair trade practices law of 1958. He stated that both the nursery industry

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Among the speakers at the Kansas convention were John Pinney, left, who gave an illustrated talk on native wild flowers of Kansas, and Vincent K. Bailey, who explained provisions of the fair trade practices law.

Alabamans Attend Course at Auburn

Panel Discussion on Quality Plant Production Highlights Program

"Planning for Space Age — '75" was the theme of the short course for nurserymen and landscape gardeners held at the Alabama Polytechnic Institute, Auburn, Ala., September 9 and 10. The program was sponsored by the Alabama Nurserymen's Association, in cooperation with the horticulture department of the school of agriculture and agricultural experiment station and the extension service of the Alabama Polytechnic Institute. Approximately 40 persons attended the sessions.

A tour of the ornamental horticultural greenhouses and gardens began the program; the qualities of many of the plants were considered by participants. This discussion was led by Prof. Henry P. Orr, of the department of horticulture, and Fred Galle, director of horticulture, Ida Cason Calloway Gardens, Chipley, Ga. Among the plants seen and discussed were dwarf yaupon, *Ilex cornuta rotunda*, *Mahonia pinnata*, *Arbutus unedo*, *Berberis candidula*, *Berberis triacanthophora*, *Camellia japonica* and *C. sasanqua* varieties, Oriental magnolia varieties and species, *Croton alabamensis*, Japanese holly varieties and *Osmanthus americanus*. All the plants in the garden are being labeled with permanent plastic labels for identification and study. New plants are constantly being added to the collection, which now numbers approximately 250 species.

Quality Production

After the tour, a panel was held on the production and maintenance of quality plants. J. D. Miller, propagator, Blackwell Nurseries, Inc., Semmes, Ala., discussed the points necessary to consider in the propagation and growing of quality liners. For container production, the use of quality liners is of utmost importance. The small grower should buy liners from a reputable source rather than try to produce these himself.

For propagation, he advised the growers to select one propagation medium, learn to use it well and then stick with that medium. That will give better results than trying different types of media.

Proper preparation of the beds for liners is important. At Blackwell, the beds are prepared by using a soil mixture of two-thirds peat moss and one-third good topsoil. To this,

five pounds of superphosphate, five pounds of cottonseed meal and five to eight pounds of lime (if needed to correct the pH) are worked into each 100 square feet of bed area several days before planting. The beds are worked to 8 to 10-inch depth and prepared so that the center is slightly higher than the sides for good drainage.

Much attention is necessary in transplanting the rooted cuttings from the greenhouse to the liner beds. Until the plants are established, protection from the sun and wind and frequent syringing are necessary.

Container Culture

Four to six weeks after planting, a soil test is made on these beds, and the fertilizer practice is established for the rest of the season. During the growing season, constant attention to weeding, watering, shearing and spraying is necessary. "Buddy" Tate, container plant grower at Blackwell Nurseries, Inc., continued the panel with a discussion of container culture. The quality liners produced in the fashion discussed by Mr. Miller are potted, using a conveyor belt. The soil mixture is two-thirds fine sand and one-third peat. Ten pounds of cottonseed meal and 20 pounds of dolomite limestone are added per cubic yard of this mixture.

Irrigation is accomplished by the use of Rain Bird 35 and Rain Bird 40 nozzles spaced on 40-foot centers. When the plants are first potted, they are placed close together. After growth begins in the spring, the containers are spaced wide enough to allow for the full growing season. The usual spacing is six 1-gallon containers across a 4½-foot bed.

Fertilization is based on the results of soil tests. To date, dry applications have been used almost exclusively. Weeding is a constant problem. The cans are set on some material that will reduce the weed growth, and the containers are kept clean. Shearing is practiced constantly for quality plants. Mr. Tate stated that his firm shears many plants three or four times during the growing season.

E. E. Foster, Foster Nursery Co., Bessemer, Ala., stated that the field should be clean and the soil prepared well to produce quality stock

in the field. He stated that it pays to have good liners and that the best time to plant is in the fall. He fertilizes two or three times during the growing season. Special attention should be given the plans after they have been dug, to insure quality plants for the customers. After being dug, the plants should be protected and should not be stored too long.

C. J. Hayden, owner of the Athens Nursery Co., Athens, Ala., stated that the first requirement of good field-grown stock is to have good land. He stated that better plants resulted from cull liners on good land than good liners on cull land. Advance preparation of the land is necessary. Proper preparation cannot be done if one waits until the liners are ready for planting. When the liners are set out, they should be cut back for maximum survival.

After the removal of a crop of B&B plants from a field, he recommended that a cover crop be turned into the soil for two years before planting nursery liners again. He recommended fall planting and working fertilizer into the soil at the time the field is prepared. He stated that, by ridging the rows, one could plant in the winter, even though the soil is frozen between the ridges.

Maintaining Quality

Maintenance of quality stock in the garden centers was discussed by Don Hastings, Jr., H. G. Hastings Seed Co., Atlanta, Ga., and Clyde Fain, Jr., Hobby Nursery, Montgomery, Ala. Mr. Hastings stated that the best way to maintain quality plants in the garden center is to have rapid turnover. More attention must be given to seeing that the public receives quality plants. The grower should dig at the proper time and give the plants the care required. The retailer should not oversell a plant nor advise as to location of the plant. There are many merchandising techniques that the retailer must adapt in operation of a nursery garden center.

Clyde Fain, Jr., stated that the garden center owners have an obligation to the public. The predictions of the future are bright, and the grower must be prepared to meet competition by properly merchandising plants and supplies.

Dr. James Foret, professor of hor-
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Arkansas Convention at Hot Springs

Landscaping Fundamentals, Propagation And Plant Diseases, Topics Discussed



Officials of the Arkansas State Nurserymen's Association elected at the group's convention at Hot Springs: Left to right (standing), Dr. Neal Compton, vice-president; E. B. Wiggins, secretary; (seated), Sam Peace, president, and Cecil M. Bittle, outgoing president.

Over 80 members and guests of the Arkansas State Nurserymen's Association registered at the Velda Rose motel, Hot Springs, Ark., for the annual convention September 4 to 6. The first formal sessions of the convention were not scheduled until Friday morning, September 5, but members who registered Thursday afternoon spent a pleasant evening renewing acquaintances at the bingo party held in the motel's Skyline lounge.

Informative talks on landscaping, propagation and the functions of the state plant board were presented at Friday morning's sessions, while the afternoon was devoted to visiting the trade exhibits displayed at the motel, sight-seeing and recreational activities. A feature of the afternoon was a tour on an amphibious army duck, which took the members for a cruise on Lake Hamilton after carrying them through the city.

George Rohlfing, past vice-president of the Aluminum Co. of America, Benton, Ark., was guest speaker at the buffet supper held Friday evening at Phillip's Willow Room, located a short distance from the motel. The film "Solid Gold" was shown Saturday morning, September 6, after which Dr. V. M. Watts gave a summary of research work in progress at the University of Arkansas, and Dr. Neil Compton showed slides of native azaleas. Saturday morning's business session was the last formal event of the meeting, which was concluded with a chicken barbe-

cue and a water-skiing exhibition on Lake Hamilton.

New Officers

Elected at the business session were the following officers for 1958-59: Sam Peace, Peace & Son Nursery, Siloam Springs, president; Dr. Neil Compton, Crystal Spring Azalea Gardens, Bentonville, vice-president, and C. B. Wiggins, Wiggins Turf Nursery, Fayetteville, secretary-treasurer. After the elections, the members voted to return to the Velda Rose motel for the 1959 convention, scheduled for September 10 to 12.

J. H. Ball, horticulturist with the agricultural extension service, University of Arkansas, Little Rock, opened the first session with a discussion of "Landscaping Fundamentals." In his illustrated lecture, he brought out that the foundation planting should emphasize and enhance the beauty of the home and draw attention to the front door.

Landscape Pointers

In treating the public area, he said, the landscape man should keep four points in mind. First, trees are used to frame the house and provide background. The size of the trees to be used depends on their location and on the size of the house. Tall trees are used about tall houses to reduce the apparent building height to a more pleasing proportion. The closer to the street a tree is placed, the smaller it may be to give the same height effect. Desirable shade trees include the southern red oak, white oak, willow oak and hackberry.

Second, there should be ample open space in the front. Third, walks and drives should be straight wherever possible. If curving is necessary, a soft, gentle curve should be used, and an object or plant placed at the curve to give reason for changing the direction of the walk. All walks should have a minimum width of four feet. When walks parallel the front of the home, a minimum space of six feet between the walk and the foundation should remain for adequate planting.

Fourth, a light foundation planting should be used. Most ranch-type houses need only a few foundation shrubs to touch up and accent the architecture of the house. Use of ground covers about this type of

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Dr. V. M. Watts, left, speaker at the Hot Springs convention, examines a container-grown santolina with Sam Peace.

A Retailer's Guide to

Ordering and Receiving Nursery Stock

By William N. Ossian

The shipping problems encountered by nurseries are peculiar to our industry. Our merchandise is more or less perishable, and our business is a seasonal one. Some items of stock have a high dollar value for weight and bulk, while other items are of low value.

Our industry is such that most retail outlets depend on wholesale growers as their sources of supply, and these sources are often far distant. Efficiency in ordering and receiving stock, therefore, can be an important factor in the nursery operation.

It is the accepted practice that all stock travels at the risk and expense of the purchaser. The risk of the shipper ceases when the shipment has been accepted by the carrier. It is incumbent, then, on the receiver of nursery shipments to acquaint himself with the risks involved and to protect his investment.

It is the purpose of these comments to outline shipping procedure as a guide to receivers of nursery stock. All of the information may not apply to any one particular busi-

At the beginning of a new shipping season, this article is most timely and warrants close reading by all retail nurserymen and others who receive shipments of nursery stock. Following the procedures outlined in this article will assist in keeping losses at a minimum and will promote healthier relationships with wholesale sources of supply. The article was prepared by William N. Ossian, traffic manager for Mount Arbor Nurseries, Shenandoah, Ia., as a service to readers of the American Nurseryman.

ness, but in general it will cover most shipping problems.

Early Ordering Important

Order early to make sure you will be able to get the stock you need. This is especially important for those items that may be in short supply in the industry.

Specify a shipping date at the time you place your order and allow a reasonable time for delivery. Then, at least 10 days to two weeks before you want your stock shipped, notify

your source of supply that you expect shipment on a certain date. The shipping season is a busy one for your source, and even in the best regulated office an order can be overlooked. It could be yours.

Specify the method of shipping. Truck freight offers service often equal to, and in some cases better than, that of Railway Express, and at cheaper rates. Rail service on less-than-carload lots is slow and unreliable and is not recommended. It should be kept in mind that truck carriers stipulate a minimum weight or minimum charge. You should arrange to order quantities of stock that weigh 100 pounds or more to hold down the delivered cost per unit. If possible, give your source the name of your delivering carrier, so your shipment can be routed through to destination.

After your shipment is accepted by the carrier it is out of the hands and control of the shipper. It is now your responsibility until delivery is made. Ordinarily, carriers give good service, but there are times when shipments are delayed, lost or damaged en route. If this occurs you should know what to do. First and most important, if your shipment is delayed, notify your shipper immediately by wire or phone and ask to have your shipment traced. Trace through your delivering carrier, too. Time is important. Delay can be costly.

Check Shipment on Receipt

When your shipment arrives, be sure it is complete. If you are short a carton, box or bale, note this on the delivery receipt and ask your carrier to check and trace your shortage.

Check the rate and weight of the shipment. The weight on the freight bill should agree with that of the bill of lading. If the rate seems too high, have your delivering carrier check it for you.

If the shipment arrives with frost in it, or is damaged, get an inspection report from your delivering carrier. The carriers are obligated to render this inspection report on request, particularly at the time of delivery, although your delivery agent, in most cases, will oblige you

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ASSOCIATION PRESIDENTS COMPARE NOTES AT MEETING



The recent meeting of the New England Nurserymen's Association at Adams Nursery, Inc., Westfield, Mass., gave the presidents of several nursery associations in the New England area an opportunity to meet informally and compare notes. Shown here are (left to right) Warren Richards, Clinton Nurseries, Clinton, Conn., Connecticut president; Willard M. Bond, Wyman's Garden Centers, Framingham, Mass., Massachusetts president; Walter Adams, president of Adams Nursery, Inc., host for the summer meeting; Harold D. Stevenson, Harold D. Stevenson Landscape Service, Rockland, Mass., New England president, and Klaas Van Hof, Van Hof Nurseries, Portsmouth, R. I., Rhode Island president.

Cheyenne Station Hosts Montana-Wyoming Group

By Duane E. Anderson

The Cheyenne horticulture field station, Cheyenne, Wyo., was the setting for the 1958 annual meeting of the Montana-Wyoming Turf and Nurserymen's Association August 28 and 29. Forty-seven persons registered, including a number of Montana and Wyoming nurserymen and greenkeepers, plus commercial and wholesale representatives.

The business meeting, held Friday afternoon, concluded with election of officers for 1959. William Hawley, Fort Peck, Mont., was elected president, Russel Dunnington, Dunnington Greenhouses & Nursery, Lewistown, was elected first vice-president; Tom Lease, Great Falls, Mont., was elected second vice-president, and James Carras, Missoula, Mont., was elected secretary-treasurer. Mr. Hawley announced that the 1959 meeting would be held at Fort Peck, Mont., and that Maj. M. R. Downs, area engineer, corps of engineers, Fort Peck, had extended an invitation to the association to hold its meeting there.

Station Program

Dr. A. C. Hildreth, director of the station, welcomed the group and explained that the station was operated by the United States Department of Agriculture to help in the development of horticulture in the central Great Plains. The research is divided into four major fields: Fruits, vegetables, windbreaks and ornamental plants. He also explained that a great deal of work is done off the station, testing materials in various areas of the 5-state region, which includes Wyoming, Colorado, Kansas, South Dakota and Nebraska.

The rest of the morning was taken up with a tour of the station grounds. The extensive and beautiful plantings consist of much native material, with selective plantings of trial material and hardy introductions. Particularly striking effects were achieved with *Viburnum lantana*, the red berries giving a bright contrast to the plantings.

The group was shown the fine shelterbelt planting of spruce in back of the residences. Dr. Hildreth pointed out the trees were grown under dryland conditions. The coloring and size of the spruce were surprisingly good. Some of the less well-known

material found in the plantings were *Buxus sempervirens* growing in sheltered locations; *Betula grandulosa*, a dwarf birch of considerable merit used as a medium-sized shrub; a pyramidal form of mountain ash, *Sorbus pursifolia hybrida*, and New Mexican wild olive, suggested as a substitute for privet. Handsome conifers served as accents in the deciduous plantings.

Concluding the morning program was a tour of the station grass plots, with explanations by Mr. Howard, of the station. Various plots of Kentucky bluegrass, Merion bluegrass, several of the fescues, buffalo grass and Colonial, Astoria, Northland and Seaside bent were inspected. The plots showed conclusively the superiority of Kentucky bluegrass as a turf grass for the area. Buffalo grass was recommended for use as a hardy drought-resistant grass. In the continuing search for a ground cover for the plains area, a plot of *Dianthus arvensis* showed value at an initial spacing of 6x6 inches.

Thursday afternoon's group was divided into two sections, persons interested mainly in turf problems and persons interested in plant materials.

The turf group convened at the Administration building, with the first part of the program under the direction of G. B. Brown, of the station. Plots showing the application

of iron in the form of Sequestrene, Versinol and iron sulphate were seen, with no appreciable difference noted in the reaction of the three compounds or speed in greening up the lawn.

Additional plots showing the application of ammonium nitrate and Uramite without iron still showed chlorosis. A general recommendation for fertilizing lawns and for chlorosis control for the southern Wyoming area was five pounds of ammonium sulphate and two pounds of iron sulphate to 1,000 square feet. It was also pointed out that organic matter in the soil is of important value in resisting chlorosis.

Wyoming Turfs

Dr. R. B. Lang, of the University of Wyoming, Laramie, headed a discussion on grasses in the Wyoming area. He voiced his approval of Kentucky bluegrass as the best turf grass for home and general planting. He also suggested a straight planting of bluegrass. If one likes an addition of a cover grass, he recommended 10 per cent each by volume of Italian rye grass and white Dutch clover in the mixture. Dr. Lang said good results had been experienced with creeping red fescue, especially in shaded areas. Tall wheat grass was recommended as being tolerant of alkali and might serve as a turf grass under extremely alkaline conditions. Another mixture which had shown considerable promise in the area was one composed of 60 per cent Kentucky bluegrass, 30 per cent Chewings fescue and 10 per cent white Dutch clover.

Under the area's climatic conditions and altitude, Merion bluegrass had not shown so good a color as Kentucky bluegrass, and the former has a wider, coarser leaf. It was brought out in discussion that Merion bluegrass is more heat and drought tolerant and seems to be more disease resistant than Kentucky bluegrass.

A brief but interesting discussion centered on establishing grass on cuts and steep grades. Mr. Brown recommended an asphalt water emulsion at the rate of one part of asphalt water emulsion to 10 parts of water sprayed on the area. The material provides a porous covering, which permits moisture to penetrate, speeds germination and prevents washing.

The final session of the afternoon on lawn diseases was conducted by Harry Nix, of the California Spray-Chemical Corp., Richmond, Calif. Mr. Nix pointed out that there was no local research on the subject in



Officers elected at the meeting of the Montana-Wyoming Turf and Nurserymen's Association at Cheyenne, Wyo.: Left to right, William Hawley, president; Russel Dunnington, first vice-president, and James Carras, secretary.

the area, but that recent mild winters followed by wet springs and hot, dry summers were conducive to an almost alarming spread of turf diseases. His discussion was mainly concerned with the disease commonly referred to as melting out, caused by the fungus *helminthosporium*. Ideal conditions for the disease are hot or warm mornings, followed by hot, rainy afternoons.

He explained that spores start at the base and work up the leaf; with leaves dropping off, disease also spreads to stems, roots and stolens, and eventually a whole area will appear dead, and grass can be pulled or lifted out by the handfuls. Mr. Nix stated that there is no known cure for the disease, but that captan and orthorix at the rate of two tablespoons per gallon to 100 square

feet was giving fair control. The disease seemed to be more prevalent in lawns with heavy thatch and where clippings were not raked off. He concluded by saying that the entire area has a high inoculation of the disease spores and if there should be another mild winter and wet spring, some serious trouble might be expected in the following year.

Ornamental Plots

The nursery group spent Thursday afternoon touring the shrub and ornamental plots under the direction of Dr. Hildreth and Mr. Howard. Chief among interesting trees and shrubs visited at the trial plots was the brittlecone pine, *Pinus aristata*, a variety having specimens now determined to be even more aged than the famed California sequoias. The

Cheyenne plantings came from seeds gathered from the native specimens growing high in the mountains of Arizona and Nevada. The plantings were made 12 years ago, and the trees are now three to five feet high.

Extensive plantings of other evergreens in shelterbelt arrangements included Austrian, limber and pinyon pine and some spruce and fir. It was observed that pinyon pine could be shaped easily. All of the afore-mentioned trees seemed to do well under alkali conditions, with the concolor fir showing less beautiful coloring than under its more native habitat. The concolor was found to be a good dry-land tree.

Vast plots of deciduous ornamental trees and shrubs were examined. Many species little known except at [Continued on page 123]

New Lath House Design

A lath house devised to shade young lily plants and beds of seedlings at his Oregon Bulb Farms, Gresham, Ore., is believed by Jan de Graaff to offer advantages to nurserymen and growers in other areas of the country. The basic unit of the structure is a simple lath panel, two of which are leaned together from opposite sides of the beds to be covered, forming a triangle with the beds as the base. Additional 2-panel sections can be joined to form a structure of any desired length.

Mr. de Graaff had the units made in two sizes. Two of the larger panels cover three 4-foot beds with 27-inch paths, and a section made with

the smaller panels covers two 4-foot beds with a 27-inch center path. As built at Gresham, the structures are of rough western red cedar, but any other lumber would serve the purpose.

The 1x4-inch laths are nailed on 2x4-inch laths. The ends of the 1x4-inch strips are flush with the edge of the 2x4's, but the two outside laths are set back about six inches from the ends of the 2x4-inch pieces. The inner laths are equally spaced to give about 50 per cent shade. This frame is then nailed to two rafters, flush with the rafters' top ends, which will be at the peak of the structure when it is erected.

Two of these complete frames are then raised together, tepee fashion, and tied together with cross braces. Additional sections are added to make a house of the desired length. Mr. de Graaff joins the different sections with a piece of steel strap wrapped around adjoining rafters and uses a brace slanting up to the peak at each end of the complete multisection house. The bottom ends of the rafters rest on small wooden blocks or mud sills and are nailed to stakes driven into the ground beside them.

These houses have withstood wind that has reached a velocity of 70 miles per hour, without damage, and they also are said to shed snow readily. Mr. de Graaff reports that there is little drip damage as compared to that occurring in other lath houses. Chicken wire can be stretched across the ends to prevent entry to the beds of small animals.

Required Lumber

The dimensions of the lumber needed for a single large-size panel are as follows: Eleven 1x4-inch lath strips, 12 feet long; two 2x4-inch lath strips, eight feet long; two 2x4-inch rafters, 14 feet long; one 1x4-inch cross brace, seven feet long, and two 1x4 or 2x4-inch stakes, about two feet long.

One of the small-size panels may be constructed with lumber in the following dimensions: Eleven 1x4-inch lath strips, seven feet, eight inches long; two 2x4-inch lath strips, eight feet long; two 2x4-inch rafters, nine feet, eight inches long; one 1x4-inch cross brace, 16½ inches long, and two 1x4-inch stakes, about two feet long. Rafter and brace ends are cut at a 45-degree angle, and scrap pieces may be used for the mud sills.



New-Type Lath House Used by Oregon Grower to Shade Seedling Beds

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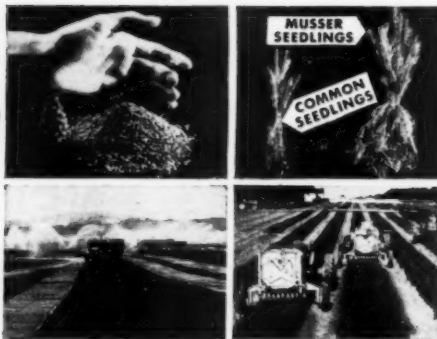
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| | Per 100 | Per 1000 |
|---|---------|----------|
| ● SPECIAL STRAIN SCOTCH PINE Very best Christmas tree strain. Grown from seed collected by our own men from selected parent trees. Exceptionally healthy, sturdy, straight-stemmed. We have all other best strains Scotch Pine. | | |
| 2-yr., S., 4 to 8 ins. | \$ 6.00 | \$ 30.00 |
| 3-yr., S., 8 to 16 ins. | 9.00 | 45.00 |
| 4-yr., T., 8 to 12 ins. | 20.00 | 100.00 |
| ● MUGHO PINE | | |
| 3-yr., S., 3 to 5 ins. | 7.00 | 35.00 |
| 5-yr., T., 4 to 8 ins. | 20.00 | 100.00 |
| ● AUSTRIAN PINE | | |
| 2-yr., S., 3 to 6 ins. | 5.00 | 25.00 |
| 3-yr., T., 8 to 14 ins. | 9.00 | 45.00 |
| ● BLACK HILLS SPRUCE | | |
| 3-yr., S., 5 to 10 ins. | 7.00 | 35.00 |
| 4-yr., S., 8 to 12 ins. | 10.00 | 50.00 |
| 5-yr., T., 8 to 12 ins. | 24.00 | 120.00 |
| ● NORWAY SPRUCE—Fast-growing | | |
| 2-yr., S., 5 to 10 ins. | 7.00 | 35.00 |
| 3-yr., S., 8 to 12 ins. | 10.00 | 50.00 |
| 3-yr., T., 6 to 12 ins. | 13.00 | 65.00 |
| 5-yr., T., 12 to 18 ins. | 30.00 | 125.00 |
| ● WHITE SPRUCE | | |
| 3-yr., S., 8 to 12 ins. | 9.00 | 45.00 |
| 4-yr., T., 10 to 15 ins. | 18.00 | 90.00 |
| ● COLORADO BLUE SPRUCE | | |
| 3-yr., S., 4 to 8 ins. | 9.00 | 45.00 |
| 4-yr., T., 4 to 8 ins. | 18.00 | 90.00 |
| ● DOUGLAS FIR | | |
| 2-yr., S., 5 to 10 ins. | 7.00 | 35.00 |
| 3-yr., S., 8 to 12 ins. | 11.00 | 55.00 |
| ● AMERICAN ARBORVITAE | | |
| 3-yr., S., 8 to 12 ins. | 8.00 | 40.00 |
| ● CANADIAN HEMLOCK | | |
| 2-yr., S., 4 to 8 ins. | 10.00 | 50.00 |
| 3-yr., S., 8 to 14 ins. | 24.00 | 120.00 |
| 5-yr., T., 8 to 14 ins. | 40.00 | 200.00 |
| ● CONCOLOR FIR | | |
| 2-yr., S., 3 to 6 ins. | 9.00 | 45.00 |

| | Per 100 | Per 1000 |
|---|-------------|----------|
| ● JAPANESE YEW | | |
| Taxus cuspidata capitata—upright pyramidal | | |
| 2-yr., S., 3 to 8 ins. | \$20.00 | \$150.00 |
| 3-yr., S., 4 to 8 ins. | 30.00 | 200.00 |
| Taxus cuspidata—spreading | | |
| 1-yr., T., 5 to 6 ins. | 20.00 | 150.00 |
| 2-yr., T., 6 to 8 ins. | 30.00 | 250.00 |
| 3-yr., T., 8 to 12 ins. | 40.00 | 350.00 |
| Taxus hicksii—upright | | |
| 1-yr., T., 5 to 7 ins. | 25.00 | 175.00 |
| 2-yr., T., 8 to 12 ins. | 40.00 | 300.00 |
| Taxus brownii—upright | | |
| 1-yr., T., 4 to 6 ins. | 25.00 | 175.00 |
| 2-yr., T., 6 to 8 ins. | 40.00 | .... |
| Taxus cuspidata capitata—spreading | | |
| From side cuttings. | .... | .... |
| 3-yr., T., 8 to 12 ins. | 40.00 | 350.00 |
| * (Heavy Liner) | | |
| Taxus intermedia—spreading | | |
| 1-yr., T., 4 to 6 ins. | 25.00 | 175.00 |
| 3-yr., T., 8 to 12 ins. | 40.00 | .... |
| * (Heavy Liner) | | |
| Taxus andersonii—spreading | | |
| 1-yr., T., 5 to 7 ins. | 20.00 | 150.00 |
| ● JUNIPER HETZII GLAUCA | | |
| 1-yr., T., 5 to 7 ins. | 25.00 | 200.00 |
| ● GLOBE ARBORVITAE | | |
| Woodwardii—dark green | | |
| 1-yr., T., 4 to 6 ins. | 30.00 | 250.00 |
| Hoveyi—green | | |
| 1-yr., T., 4 to 6 ins. | 30.00 | 250.00 |
| ● PYRAMIDAL ARBORVITAE—Compacta | | |
| 1-yr., T., 5 to 7 ins. | 25.00 | 200.00 |
| ● JAPANESE HOLLY | | |
| Ilex rotundifolia | | |
| 1-yr., T., 5 to 6 ins. | 20.00 | .... |
| 4-yr., T.T., 12 to 15 ins. | \$1.75 each | .... |
| * (Sold in lots 5 or more) | | |
| ● AMERICAN HOLLY—Ilex opaca | | |
| 1-yr., T., 10 ins. and up. | 50.00 | 400.00 |
| (Sexes separate) | | |
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COMING EVENTS

MEETING CALENDAR

October 23 to 25—American Horticultural Congress, annual congress, Williamsburg, Va.

October 24 to 26—Florida Nurserymen and Growers Association, annual trade meet, Sarasota county fairgrounds and New Terrace hotel, Sarasota, Fla.

November 13 and 14—Holly Society of America, 25th meeting, Hotel Jefferson, Richmond, Va.

November 16 to 18—New Jersey Federation of Shade Tree Commissions, New Jersey Society of Certified Tree Experts and the Arborists Association of New Jersey, joint annual meeting, Haddon-Hall hotel, Atlantic City, N. J.

December 1 and 2—Minnesota State Nurserymen's Association, annual convention, Curtis hotel, Minneapolis, Minn.

December 3 to 5—Wisconsin Nurserymen's Association, annual meeting, Hotel Schroeder, Milwaukee, Wis.

December 9 and 10—Arizona Nurserymen's Association, annual meeting, Arizona State College, Tempe.

JOINT NEW JERSEY MEET

The 33rd annual meeting of the New Jersey Federation of Shade Tree Commissions, cooperating with the New Jersey Society of Certified Tree Experts and the Arborists Association of New Jersey, will be held at the Haddon-Hall hotel, Atlantic City, N. J., November 16 to 18.

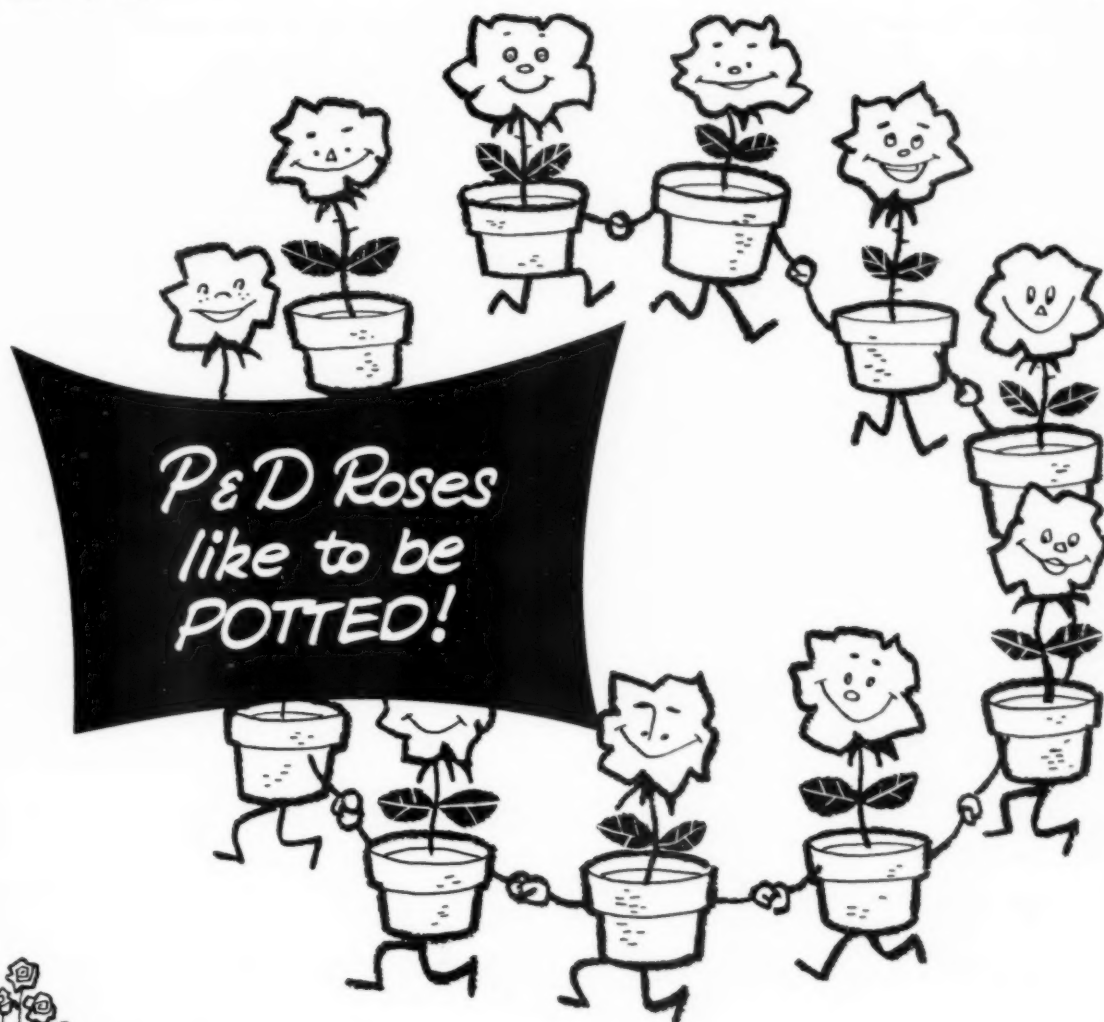
FLORIDA TRADE MEET

With membership in the Florida Nurserymen and Growers Association nearing the thousand mark, a record attendance at the annual trade meet to be held at Sarasota, Fla., October 24 to 26 is anticipated, according to James F. Griffin, Jr., executive secretary.

Exhibits of nursery stock and allied products will fill the large Exhibition building of the agricultural center at the Sarasota county fairgrounds, with overflow exhibits adjacent to the building. Headquarters will be the completely air-conditioned New Terrace hotel, in downtown Sarasota, less than a mile from the fairgrounds. The gardens of the hotel contain a swimming pool and a large shuffleboard court. Free bus service will be provided between the hotel and the Exhibition building for those who prefer to leave their cars in the hotel parking lot.

The Manasota chapter of the F. N. G. A., which is in charge of

[Continued on page 24]



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AMERICAN ARBORVITAE VARIETIES

| | Per 10 | Per 100 |
|---|--------|---------|
| Dark Green American Arborvitae (<i>Thuja occidentalis</i>) | | |
| 30 to 36 ins. | \$2.25 | \$2.00 |
| 3 to 4 ft. | 2.75 | 2.50 |
| 4 to 5 ft. | 3.50 | 3.00 |
| Compacta erecta globosa Arborvitae | | |
| 15 to 18 ins. | 1.60 | 1.40 |
| 18 to 24 ins. | 2.00 | 1.75 |
| 24 to 30 ins. | 2.50 | 2.25 |
| 30 to 36 ins. | 3.00 | 2.60 |
| Globosa (American Globe) Arborvitae | | |
| 12 to 15 ins. | 1.45 | 1.25 |
| 15 to 18 ins. | 1.80 | 1.60 |
| 18 to 24 ins. | 2.25 | 2.00 |
| 24 to 30 ins. | 2.75 | 2.50 |
| Pyramidal American Arborvitae | | |
| 18 to 24 ins. | 1.60 | 1.35 |
| 24 to 30 ins. | 1.80 | 1.65 |
| 30 to 36 ins. | 2.50 | 2.25 |
| 3 to 4 ft. | 3.00 | 2.75 |
| 4 to 5 ft. | 3.75 | 3.50 |
| 5 to 6 ft. | 4.50 | 4.25 |

ORIENTAL ARBORVITAE VARIETIES

| | Per 10 | Per 100 |
|---|--------|---------|
| Baker Arborvitae (<i>Thuja orientalis</i>) | | |
| 2 to 3 ft. | \$1.40 | \$1.35 |
| 3 to 4 ft. | 2.00 | 1.75 |
| 4 to 5 ft. | 2.50 | 2.25 |
| Berckmans Arborvitae | | |
| 15 to 18 ins. | 1.40 | 1.20 |
| 18 to 24 ins. | 1.70 | 1.50 |
| 24 to 30 ins. | 2.25 | 2.00 |
| 30 to 36 ins. | 2.75 | 2.50 |
| Blue Cone Arborvitae | | |
| 18 to 24 ins. | 1.20 | 1.00 |
| 24 to 30 ins. | 1.45 | 1.25 |
| 30 to 36 ins. | 1.70 | 1.50 |
| Bonita Arborvitae | | |
| 15 to 18 ins. | 1.35 | 1.20 |
| 18 to 24 ins. | 1.65 | 1.50 |
| 24 to 30 ins. | 2.25 | 2.00 |
| 30 to 36 ins. | 2.75 | 2.50 |
| Excelsa Arborvitae | | |
| 24 to 30 ins. | 1.40 | 1.25 |
| 30 to 36 ins. | 1.70 | 1.50 |
| Fruitlandi Arborvitae | | |
| 18 to 24 ins. | 1.40 | 1.25 |
| 24 to 30 ins. | 1.70 | 1.50 |
| 30 to 36 ins. | 2.25 | 2.00 |
| Golden Ball Arborvitae | | |
| 12 to 15 ins. | 1.25 | 1.10 |
| 15 to 18 ins. | 1.50 | 1.35 |
| Newark Arborvitae | | |
| 24 to 30 ins. | 1.40 | 1.25 |
| 30 to 36 ins. | 1.70 | 1.50 |
| 3 to 4 ft. | 2.25 | 2.00 |
| 4 to 5 ft. | 2.75 | 2.50 |

JUNIPERS, SPREADING VARIETIES

| | Per 10 | Per 100 | | Per 10 | Per 100 |
|--------------------------------|--------|---------|--|--------|---------|
| Andorra Juniper | | | Hetz Blue Juniper | | |
| 15 to 18 ins. | \$1.60 | \$1.40 | 15 to 18 ins. | \$1.45 | |
| 18 to 24 ins. | 1.90 | 1.75 | 18 to 24 ins. | 2.00 | |
| 24 to 30 ins. | 2.50 | 2.25 | 24 to 30 ins. | 2.50 | |
| | | | 30 to 36 ins. | 3.00 | |
| Andorra Juniper, green | | | Savin Juniper | | |
| 15 to 18 ins. | 1.60 | 1.40 | 12 to 15 ins. | 1.00 | |
| 18 to 24 ins. | 1.90 | 1.75 | 15 to 18 ins. | 1.35 | |
| 24 to 30 ins. | 2.50 | 2.25 | 18 to 24 ins. | 1.75 | |
| Meyer Juniper | | | Von Ebron Juniper | | |
| 15 to 18 ins. | 1.75 | 1.50 | 15 to 18 ins. | 1.35 | |
| | | | 18 to 24 ins. | 1.75 | |
| Pfitzer Juniper | | | 24 to 30 ins. | 2.25 | |
| 12 to 15 ins. | 1.25 | 1.10 | 30 to 36 ins. | 2.75 | |
| 15 to 18 ins. | 1.65 | 1.50 | | | |
| 18 to 24 ins. | 2.20 | 2.00 | Sargent Juniper (sargentii) | | |
| 24 to 30 ins. | 2.75 | 2.50 | 12 to 15 ins. | 1.25 | |
| 30 to 36 ins. | 3.25 | 3.00 | 15 to 18 ins. | 1.65 | |
| Pfitzer Blue Juniper | | | Repandens Juniper | | |
| 15 to 18 ins. | 1.65 | 1.50 | (<i>Virginiana repandens</i>), dark green, good winter color | | |
| 18 to 24 ins. | 2.25 | 2.00 | 12 to 15 ins. | 1.00 | |
| Compact Pfitzer Juniper | | | 15 to 18 ins. | 1.35 | |
| 12 to 15 ins. | 1.25 | 1.10 | 18 to 24 ins. | 1.75 | |
| 15 to 18 ins. | 1.65 | 1.50 | | | |
| 18 to 24 ins. | 2.20 | 2.00 | Virginialis Juniper | | |
| 24 to 30 ins. | 2.75 | 2.50 | Vase-shaped, light green | | |
| Pfitzer Nana Juniper | | | 15 to 18 ins. | 1.35 | |
| 12 to 15 ins. | 1.25 | 1.10 | 18 to 24 ins. | 1.75 | |
| 15 to 18 ins. | 1.65 | 1.50 | 24 to 30 ins. | 2.25 | |
| 18 to 24 ins. | 2.20 | 2.00 | | | |

JUNIPERS, UPRIGHT VARIETIES

| | Per 10 | Per 100 | | Per 10 | Per 100 |
|--------------------------------------|--------|---------|--|--------|---------|
| Juniperus virginiana glauca | | | Fantagata Juniper | | |
| 2 to 3 ft. | \$2.75 | \$2.50 | 24 to 30 ins. | \$1.10 | |
| 3 to 4 ft. | 3.75 | 3.50 | 30 to 36 ins. | 1.40 | |
| 4 to 5 ft. | 4.75 | 4.50 | 3 to 4 ft. | 1.65 | |
| | | | 4 to 5 ft. | 2.25 | |
| Juniperus virginiana burki | | | Greek Juniper | | |
| 2 to 3 ft. | 2.75 | 2.50 | (<i>Juniperus excelsa stricta</i>) | | |
| 3 to 4 ft. | 3.75 | 3.50 | 15 to 18 ins. | 1.35 | |
| | | | 18 to 24 ins. | 1.65 | |
| Juniperus virginiana canaerti | | | 24 to 30 ins. | 2.25 | |
| 2 to 3 ft. | 2.75 | 2.50 | 30 to 36 ins. | 3.00 | |
| 3 to 4 ft. | 3.75 | 3.50 | | | |
| 4 to 5 ft. | 4.75 | 4.50 | Hetz glauca Juniper, pyramids | | |
| Cupressifolia Juniper | | | (<i>Hetz glauca</i>), staked and trained to pyramids | | |
| (<i>Hillspire Juniper</i>) | | | 24 to 30 ins. | 2.25 | |
| 2 to 3 ft. | 2.75 | 2.50 | 30 to 36 ins. | 3.00 | |
| 3 to 4 ft. | 3.75 | 3.50 | 3 to 4 ft. | 3.75 | |
| Dundee Juniper | | | Mascula Juniper | | |
| 2 to 3 ft. | 2.75 | 2.50 | (<i>Juniperus chinensis mascula</i>), gray-green pyramids | | |
| 3 to 4 ft. | 3.75 | 3.50 | 3 to 4 ft. | 2.75 | |
| | | | Von Ebron Juniper, pyramids | | |
| | | | (<i>Juniperus sabina Vonebron</i>), staked and trained to pyramids | | |
| | | | 24 to 30 ins. | 2.25 | |
| | | | 30 to 36 ins. | 3.00 | |
| | | | 3 to 4 ft. | 3.75 | |

MISCELLANEOUS CONIFERS

| | Per 10 | Per 100 | | Per 10 | Per 100 | | Per 10 | Per 100 |
|----------------------|--------|---------|------------------------------------|--------|---------|-----------------------------------|--------|---------|
| <i>Garee Cypress</i> | | | <i>Chamaecyparis Cyano Viridis</i> | | | <i>Mugho Pine (Pinus mughus)</i> | | |
| 3 ft. | \$2.25 | \$2.00 | 24 to 30 ins. | \$1.50 | \$1.25 | 12 to 15 ins. | \$1.85 | \$1.50 |
| 4 ft. | 3.25 | 3.00 | 30 to 36 ins. | 2.00 | 1.75 | 15 to 18 ins. | 2.20 | 2.00 |
| <i>atlantica</i> | | | 3 to 4 ft. | 2.50 | 2.25 | | | |
| 3 ft. | 1.75 | 1.50 | | | | <i>White Pine (Pinus strobus)</i> | | |
| 4 ft. | 2.75 | 2.50 | <i>Austrian Pine (Pinus nigra)</i> | | | 18 to 24 ins. | 1.40 | 1.25 |
| 5 ft. | 3.75 | 3.50 | 18 to 24 ins. | 1.40 | 1.25 | 24 to 30 ins. | 2.00 | 1.75 |
| <i>desodara</i> | | | 24 to 30 ins. | 2.00 | 1.75 | 30 to 36 ins. | 2.50 | 2.25 |
| 3 ft. | 1.75 | 1.50 | 30 to 36 ins. | 2.50 | 2.25 | 3 to 4 ft. | 3.25 | 3.00 |
| 4 ft. | 2.75 | 2.50 | 3 to 4 ft. | 3.25 | 3.00 | 4 to 5 ft. | 4.25 | 4.00 |
| 5 ft. | 3.75 | 3.50 | 4 to 5 ft. | 4.50 | 4.00 | | | |
| 6 ft. | 4.75 | 4.50 | | | | | | |

BROAD-LEAVED EVERGREENS

| | Per 10 | Per 100 | | Per 10 | Per 100 | | Per 10 | Per 100 |
|---|--------|---------|--|--------|---------|--|--------|---------|
| <i>grandiflora</i> | | | <i>Ilex opaca Croonenburg</i> | | | <i>Nandina domestica</i> | | |
| 3 ft. | \$1.25 | \$1.00 | 2 to 3 ft. | \$2.25 | \$2.00 | 15 to 18 ins. | \$0.80 | \$0.75 |
| 4 ft. | 1.50 | 1.25 | 3 to 4 ft. | 3.25 | 3.00 | 18 to 24 ins. | 1.00 | .90 |
| <i>(Illicium anisatum)</i> | | | 4 to 5 ft. | 4.25 | 4.00 | 24 to 30 ins. | 1.40 | 1.25 |
| 3 ft. | 1.50 | 1.25 | <i>Ilex East Palatka</i> | | | 30 to 36 ins. | 1.65 | 1.50 |
| <i>var. julianae nana</i> | | | 2 to 3 ft. | 2.25 | 2.00 | 3 to 4 ft. | 2.25 | 2.00 |
| 18 ins. | 1.75 | 1.50 | 3 to 4 ft. | 3.25 | 3.00 | <i>Osmanthus fortunei</i> | | |
| <i>var. harlandi</i> | | | 4 to 5 ft. | 4.25 | 4.00 | 18 to 24 ins. | 1.40 | 1.25 |
| 10 ins. | .60 | .50 | 5 to 6 ft. | 5.50 | 5.00 | 24 to 30 ins. | 1.90 | 1.75 |
| 12 ins. | .85 | .75 | 6 to 7 ft. | 7.50 | 7.00 | <i>Viburnum burkwoodi</i> | | |
| <i>var. sempervirens</i> | | | <i>Ilex fosteri (Foster No. 2)</i> | | | 18 to 24 ins. | 1.65 | 1.50 |
| 18 ins. | 2.25 | 2.00 | 2 to 3 ft. | 2.25 | 2.00 | 24 to 30 ins. | 1.90 | 1.75 |
| 24 ins. | 2.75 | 2.50 | 3 to 4 ft. | 3.25 | 3.00 | 30 to 36 ins. | 2.25 | 2.00 |
| <i>var. decora lactea</i> | | | <i>Ilex opaca howardi</i> | | | <i>Viburnum chenaulti</i> | | |
| 30 ins. | 1.50 | 1.25 | 2 to 3 ft. | 2.25 | 2.00 | 18 to 24 ins. | 1.65 | 1.50 |
| 36 ins. | 2.00 | 1.75 | 3 to 4 ft. | 3.25 | 3.00 | <i>Viburnum juddi</i> | | |
| <i>var. pungens</i> | | | 4 to 5 ft. | 4.25 | 4.00 | 15 to 18 ins. | 1.40 | 1.25 |
| 3 ft. | 1.25 | 1.00 | 5 to 6 ft. | 5.50 | 5.00 | 18 to 24 ins. | 1.65 | 1.50 |
| 4 ft. | 1.75 | 1.50 | <i>Ilex opaca Humo No. 2</i> | | | <i>Viburnum rhytidophyllum</i> | | |
| <i>var. coloratus</i> | | | 3 to 4 ft. | 3.25 | 3.00 | (Leather-leaved Snowball) | | |
| 24 ins. | 1.20 | 1.00 | 4 to 5 ft. | 4.25 | 4.00 | 18 to 24 ins. | 1.65 | 1.50 |
| 30 ins. | 1.40 | 1.25 | 5 to 6 ft. | 5.50 | 5.00 | 24 to 30 ins. | 1.90 | 1.75 |
| 36 ins. | 1.75 | 1.50 | <i>Ilex opaca Reynolds</i> | | | 30 to 36 ins. | 2.25 | 2.00 |
| <i>var. patens</i> | | | 2 to 3 ft. | 2.25 | 2.00 | | | |
| 18 ins. | 1.20 | 1.00 | 3 to 4 ft. | 3.25 | 3.00 | <i>DECIDUOUS TREES, B&B</i> | | |
| 24 ins. | 1.40 | 1.25 | <i>Ilex vomitoria, small-leaved, sheared</i> | | | <i>Magnolia nigra</i> | | |
| 30 ins. | 1.75 | 1.50 | 18 to 24 ins. | 1.15 | 1.00 | (Purple Magnolia) | | |
| 36 ins. | 2.25 | 2.00 | 24 to 30 ins. | 1.65 | 1.50 | 2 to 3 ft. | \$1.75 | \$1.50 |
| <i>var. stricta nana</i> | | | 30 to 36 ins. | 2.25 | 2.00 | <i>Magnolia soulangeana</i> | | |
| 18 ins. | 1.00 | .75 | 3 to 4 ft. | 2.75 | 2.50 | (Pink Magnolia) | | |
| 24 ins. | 1.25 | 1.00 | <i>Ilex vomitoria Pride of Houston</i> | | | 2 to 3 ft. | 2.25 | 2.00 |
| <i>var. burfordi</i> | | | 18 to 24 ins. | 1.15 | 1.00 | 3 to 4 ft. | 3.00 | 2.75 |
| 18 ins. | 1.10 | 1.00 | 24 to 30 ins. | 1.65 | 1.50 | 4 to 5 ft. | 3.75 | 3.50 |
| 24 ins. | 1.40 | 1.25 | <i>Ilex vomitoria nana (Dwarf Yaupon)</i> | | | 5 to 6 ft. | 5.00 | 4.50 |
| 30 ins. | 1.65 | 1.50 | 12 to 15 ins. | 1.50 | 1.25 | <i>Magnolia stellata (Star Magnolia)</i> | | |
| 36 ins. | 2.25 | 2.00 | 15 to 18 ins. | 2.00 | 1.75 | 18 to 24 ins. | 2.25 | 2.00 |
| 4 ft. | 4.50 | 4.00 | 18 to 24 ins. | 2.50 | 2.25 | 2 to 3 ft. | 3.25 | 3.00 |
| <i>var. femina</i> | | | <i>Jasmine, floridum</i> | | | <i>LINERS</i> | | |
| 18 ins. | 1.10 | 1.00 | 15 to 18 ins. | 1.15 | 1.00 | <i>Pot Liners</i> | | |
| 24 ins. | 1.40 | 1.25 | 18 to 24 ins. | 1.40 | 1.25 | R—Rose Pots P—Peat Pots Each | | |
| 30 ins. | 1.65 | 1.50 | 24 to 30 ins. | 1.70 | 1.50 | <i>Elaeagnus fruitlandi, 2 1/2-in. R.</i> | | \$0.12 |
| 36 ins. | 2.25 | 2.00 | 30 to 36 ins. | 2.00 | 1.75 | <i>Ilex burfordi, 3-in. P.</i> | | .17 1/2 |
| 4 ft. | 3.25 | 3.00 | <i>Ligustrum lucidum (Black Wax)</i> | | | <i>Ilex crenata convexa, 3-in. P.</i> | | .17 1/2 |
| <i>Ligustrum lucidum</i> | | | 18 to 24 ins. | 1.00 | .90 | <i>Ilex crenata hotii, 2 1/2-in. R.</i> | | .15 |
| 18 to 24 ins. | 1.00 | .90 | 24 to 30 ins. | 1.25 | 1.10 | <i>Ilex crenata repandens, 2 1/4-in. R.</i> | | .15 |
| 30 to 36 ins. | 1.50 | 1.35 | 30 to 36 ins. | 1.50 | 1.35 | <i>Ilex opaca East Palatka, 2 1/4-in. R.</i> | | .17 1/2 |
| <i>Ligustrum lucidum, Griffing type</i> | | | <i>Ligustrum lucidum Suwannee River</i> | | | <i>Laurocerasus caroliniana, 2 1/4-in. R.</i> | | .12 |
| 18 to 24 ins. | 1.00 | .90 | 15 to 18 ins. | 1.50 | 1.25 | <i>Magnolia glauca, 2 1/2-in. R.</i> | | .15 |
| 24 to 30 ins. | 1.25 | 1.10 | 18 to 24 ins. | 2.25 | 2.00 | <i>Osmanthus aquilegium, 2 1/4-in. R.</i> | | .20 |
| 30 to 36 ins. | 1.50 | 1.35 | 24 to 30 ins. | 2.75 | 2.50 | <i>Osmanthus fortunei, 6 to 8 ins., 2 1/2-in. R.</i> | | .17 1/2 |
| <i>Ligustrum lucidum Suwannee River</i> | | | <i>Carolina Cherry Laurel</i> | | | <i>Thuja occidentalis compacta erecta,</i> | | |
| 15 to 18 ins. | 1.50 | 1.25 | 2 to 3 ft. | 1.50 | 1.25 | 2 1/2-in. R. | | .17 1/2 |
| 18 to 24 ins. | 2.25 | 2.00 | 3 to 4 ft. | 1.75 | 1.50 | <i>Thuja occidentalis globosa, 2 1/2-in. R.</i> | | .17 1/2 |
| 24 to 30 ins. | 2.75 | 2.50 | 4 to 5 ft. | 2.75 | 2.50 | <i>Thuja occidentalis nigra, 2 1/2-in. R.</i> | | .17 1/2 |
| <i>Laurel, English</i> | | | 5 to 6 ft. | 3.75 | 3.50 | <i>Thuja occidentalis pyramidalis, 2 1/2-in. R.</i> | | .17 1/2 |
| 18 to 24 ins. | 1.15 | 1.00 | <i>Laurel, zabeli</i> | | | <i>Thuja occidentalis wareana, 2 1/2-in. R.</i> | | .17 1/2 |
| 2 to 3 ft. | 1.75 | 1.50 | (Strap-leaved Laurel) | | | <i>Thuja orientalis Berckmans Golden,</i> | | |
| <i>Laurel, zabeli</i> | | | 15 to 18 ins. | 1.40 | 1.25 | 2 1/2-in. R. | | .17 1/2 |
| 18 to 24 ins. | 2.00 | 1.75 | 18 to 24 ins. | 2.00 | 1.75 | <i>Thuja orientalis excelas, 2 1/4-in. R.</i> | | .17 1/2 |
| <i>Loropetalum chinense</i> | | | <i>Loropetalum chinense</i> | | | <i>Thuja orientalis fruitlandi, 2 1/4-in. R.</i> | | .17 1/2 |
| (Texas Fringe) | | | 18 to 24 ins. | 1.15 | 1.00 | <i>Thuja orientalis bonita, 2 1/4-in. R.</i> | | .17 1/2 |
| 24 to 30 ins. | 1.75 | 1.50 | 24 to 30 ins. | 1.75 | 1.50 | <i>Thuja orientalis newark, 2 1/4-in. R.</i> | | .17 1/2 |
| <i>Magnolia grandiflora</i> | | | <i>Magnolia glauca (Sweet Bay)</i> | | | <i>Viburnum burkwoodi, 6 to 8 ins.,</i> | | .17 1/2 |
| 2 to 3 ft. | 1.75 | 1.50 | 2 to 3 ft. | 1.50 | 1.25 | 2 1/4-in. R. | | .17 1/2 |
| 3 to 4 ft. | 2.75 | 2.50 | 3 to 4 ft. | 2.25 | 2.00 | <i>Buxus harlandi, T., 1-yr., 4 to 6 ins.</i> | | .08 |
| 4 to 5 ft. | 3.75 | 3.50 | 4 to 5 ft. | 3.25 | 3.00 | <i>Buxus harlandi, T., 2-yr., 6 to 8 ins.</i> | | .12 |
| 5 to 6 ft. | 5.50 | 5.00 | 5 to 6 ft. | 4.50 | 4.00 | <i>Chamaecyparis lawsoniana allumi,</i> | | |
| 6 to 8 ft. | 8.00 | 7.50 | 6 to 8 ft. | 7.00 | 6.00 | T., 1-yr., 6 to 8 ins. | | .15 |
| <i>Magnolia glauca</i> | | | <i>Magnolia glauca</i> | | | <i>Chamaecyparis Cyano Viridis,</i> | | |
| 2 to 3 ft. | 1.50 | 1.25 | 2 to 3 ft. | 1.50 | 1.25 | T., 1-yr., 4 to 6 ins. | | .15 |
| 3 to 4 ft. | 2.25 | 2.00 | 3 to 4 ft. | 2.25 | 2.00 | <i>Ilex burfordi, T., 2-yr., 6 to 10 ins.</i> | | .15 |
| 4 to 5 ft. | 3.25 | 3.00 | 4 to 5 ft. | 3.25 | 3.00 | <i>Ilex crenata retundifolia,</i> | | |
| 5 to 6 ft. | 4.50 | 4.00 | 5 to 6 ft. | 4.50 | 4.00 | T., 2-yr., 6 to 8 ins. | | .15 |
| 6 to 8 ft. | 7.00 | 6.00 | 6 to 8 ft. | 7.00 | 6.00 | <i>Jasminum floridum, T., 8 to 12 ins.</i> | | .12 |

LINERS

Pot Liners

| | R—Rose Pots | P—Peat Pots | Each |
|--|-------------|-------------|---------|
| <i>Elaeagnus fruitlandi, 2 1/2-in. R.</i> | | | \$0.12 |
| <i>Ilex burfordi, 3-in. P.</i> | | | .17 1/2 |
| <i>Ilex crenata convexa, 3-in. P.</i> | | | .17 1/2 |
| <i>Ilex crenata hotii, 2 1/2-in. R.</i> | | | .15 |
| <i>Ilex crenata repandens, 2 1/4-in. R.</i> | | | .15 |
| <i>Ilex opaca East Palatka, 2 1/4-in. R.</i> | | | .17 1/2 |
| <i>Laurocerasus caroliniana, 2 1/4-in. R.</i> | | | .12 |
| <i>Magnolia glauca, 2 1/2-in. R.</i> | | | .15 |
| <i>Osmanthus aquilegium, 2 1/4-in. R.</i> | | | .20 |
| <i>Osmanthus fortunei, 6 to 8 ins., 2 1/2-in. R.</i> | | | .17 1/2 |
| <i>Thuja occidentalis compacta erecta,</i> | | | |
| 2 1/2-in. R. | | | .17 1/2 |
| <i>Thuja occidentalis globosa, 2 1/2-in. R.</i> | | | .17 1/2 |
| <i>Thuja occidentalis nigra, 2 1/2-in. R.</i> | | | .17 1/2 |
| <i>Thuja occidentalis pyramidalis, 2 1/2-in. R.</i> | | | .17 1/2 |
| <i>Thuja occidentalis wareana, 2 1/2-in. R.</i> | | | .17 1/2 |
| <i>Thuja orientalis Berckmans Golden,</i> | | | |
| 2 1/2-in. R. | | | .17 1/2 |
| <i>Thuja orientalis excelas, 2 1/4-in. R.</i> | | | .17 1/2 |
| <i>Thuja orientalis fruitlandi, 2 1/4-in. R.</i> | | | .17 1/2 |
| <i>Thuja orientalis bonita, 2 1/4-in. R.</i> | | | .17 1/2 |
| <i>Thuja orientalis newark, 2 1/4-in. R.</i> | | | .17 1/2 |
| <i>Viburnum burkwoodi, 6 to 8 ins.,</i> | | | |
| 2 1/4-in. R. | | | .17 1/2 |

Bed-Grown Liners

| | |
|---|-----|
| <i>Buxus harlandi, T., 1-yr., 4 to 6 ins.</i> | .08 |
| <i>Buxus harlandi, T., 2-yr., 6 to 8 ins.</i> | .12 |
| <i>Chamaecyparis lawsoniana allumi,</i> | |
| T., 1-yr., 6 to 8 ins. | .15 |
| <i>Chamaecyparis Cyano Viridis,</i> | |
| T., 1-yr., 4 to 6 ins. | .15 |
| <i>Ilex burfordi, T., 2-yr., 6 to 10 ins.</i> | .15 |
| <i>Ilex crenata retundifolia,</i> | |
| T., 2-yr., 6 to 8 ins. | .15 |
| <i>Jasminum floridum, T., 8 to 12 ins.</i> | .12 |

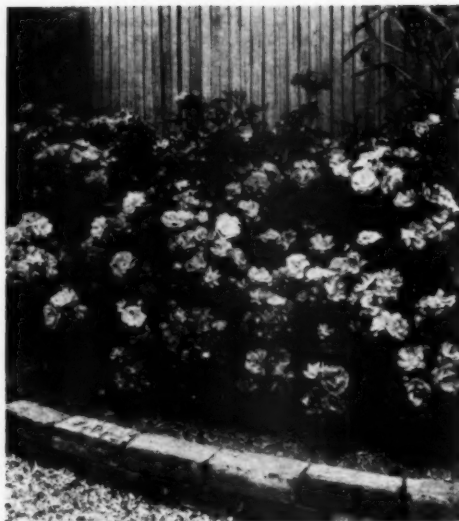
Field-Grown Liners

| | |
|--|--------|
| <i>Ilex crenata retundifolia, T.</i> | |
| <i>Ilex crenata convexa, T., 4-year, field-grown</i> | |
| plants, many times trimmed—specimen qual- | |
| ity—fine for cans. | Each |
| 10 to 12 ins. | \$0.40 |
| 12 to 15 ins. | .60 |



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An alluring "sheet-blooming" floribunda flaunting great masses of vivid red bloom from the season's beginning until its end. Big sprays of long-lasting, colorfast flowers almost hide the medium-size plant, and their rich velvety color holds until all petals drop off cleanly. Sell it for brilliant red garden color—it's a natural.

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the trade meet arrangements, will have a lunch and refreshment stand at the fairgrounds. The public will be invited to visit the trade exhibits Sunday, October 26. Palmer Nurseries, Sarasota and Osprey, will open The Oaks, the winter home of the late Mrs. Potter Palmer, of Chicago, to visiting F. N. G. A. members and their families.

The following schedule of events is planned:

THURSDAY, OCTOBER 23

All day—Setting up exhibits
6:30 p.m.—Board of directors' meeting, New Terrace hotel.

FRIDAY, OCTOBER 24

9 a.m.—Registration, hotel lobby.
5 p.m.—Cracker fish fry and entertainment, agricultural center.

SATURDAY, OCTOBER 25

8 a.m.—A. A. N. breakfast, hotel.
9 a.m.—Registration, hotel lobby.
12 noon—Florida Landscape Contractors' luncheon, hotel.
4 p.m.—Beef Bar-B-Q and entertainment, agricultural center.

SUNDAY, OCTOBER 26

1 p.m.—Exhibits open to public.
2 p.m.—Florida Landscape Contractors' meeting.

MINNESOTA SITE

As it was last year, the Curtis hotel, Minneapolis, Minn., will be headquarters for this year's annual convention of the Minnesota State Nurserymen's Association. According to Edward S. Reid, secretary-treasurer of the association, the meeting will be held December 1 and 2, with Russell Zakariasen, Homedale Nursery, Hopkins, Minn., as program chairman.

HORTICULTURAL CONGRESS

The 13th annual American Horticultural Congress will be held at Williamsburg, Va., October 22 to 25, 1958. The congress will officially open Thursday morning, October 23, but a hospitality party will be held for those present at 5:30 o'clock the previous evening. The Garden Writers of America will hold a breakfast at 7:30 for members and guests. During the opening session, an animated film on horticulture, produced by the American Association of Nurserymen, will be shown. A welcome to the 13th annual congress plenary session will be given by Mrs. Jesse F. Hakes, Glenwood, Md., chairman, with Dr. Albert J. Irving, New York, N. Y., president, presiding. Reports of commissions and committees will be given.

Ivor Noel-Hume, chief archaeologist, Colonial Williamsburg, will speak at the lunch on Thursday, October 23, on the topic, "The Secret Earth of Williamsburg." Im-

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| | Per 100 | Per 1000 |
|---|---------|----------|
| Abelia grandiflora sherwoodi (Sherwood Dwarf Abelia) Fine foliage, tiny flowers. 6 to 12 ins., once transplanted | \$15.00 | \$135.00 |
| Azalea hinodegiri (Crimson Azalea) Dwarf, compact, bright red. 3 to 6 ins., once transplanted | 16.00 | 144.00 |
| Azalea maxwelli (Maxwell Azalea) Superb evergreen, carmine-red. 9 to 12 ins., once transplanted | 24.00 | 216.00 |
| Berberis buxifolia nana (Dwarf Magellan Barberry) Fine, compact dwarf. 6 to 9 ins., once transplanted | 21.00 | 189.00 |
| Berberis chenaulti (Chenault Barberry) Similar to verruculosa. 3 to 6 ins., once transplanted | 17.00 | 153.00 |
| Berberis julianae (Wintergreen Barberry) One of the best upright barberries. 3 to 6 ins., once transplanted | 17.00 | 153.00 |
| Camellia japonica Pink Perfection Double, clear pink flowers, perfectly formed. 12 to 15 ins., once transplanted | 25.00 | 225.00 |

DID YOU KNOW?

That there are 22 species of plants found in southwestern Oregon and northern California found nowhere else in the world.

| | | |
|--|-------|--------|
| Cephalotaxus harringtonia fastigiata (Plum Yew) Remarkable columnar, yewlike tree. 3 to 6 ins., once transplanted | 17.00 | 153.00 |
| Chamaecyparis pisifera filifera nana aurea (Dwarf Golden Thread Cypress), heavy type. A compact mass of intensely golden filaments. 9 to 12 ins., twice transplanted | 29.00 | 261.00 |
| Cotoneaster apiculata (Cranberry Cotoneaster) Prostrate, red berries like cranberries. 6 to 12 ins., once transplanted | 16.00 | 144.00 |
| Cotoneaster horizontalis (Rock Cotoneaster) Masses of red berries. 6 to 12 ins., not transplanted | 13.00 | 117.00 |
| Daphne mezereum alba (White February Daphne) Huge quantity of showy white flowers. 3 to 6 ins., not transplanted | 14.00 | 126.00 |
| Daphne mezereum rubra (Red February Daphne) Delightfully fragrant, lilac-purple flowers. 6 to 9 ins., once transplanted | 20.00 | 180.00 |
| Daboecia polifolia rosea (Pink Irish Bell Heather) Flowers are abundant, rosy-lavender. 3 to 6 ins., once transplanted | 14.00 | 126.00 |
| Erica carnea (Sherwood Creeping Heath) Low creeper. Flowers bright carmine-red. 3 to 6 ins., once transplanted | 14.00 | 126.00 |
| Euonymus radicans (Winter Creeper) Low, procumbent shrub, rich green foliage. 6 to 9 ins., once transplanted | 17.00 | 153.00 |
| Euonymus radicans argenteo-marginatus (Silver Edge Winter Creeper) A variegated, low, procumbent shrub. 3 to 6 ins., once transplanted | 14.00 | 126.00 |

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| | Per 100 | Per 1000 |
|--|---------|----------|
| Hedera helix arborescens (Bush English Ivy) Ivy in bush form. 6 to 9 ins., twice transplanted | \$20.00 | \$180.00 |
| Ilex aquifolium angustifolia (Narrow-leaved Holly) Beautiful slender tree. 3 to 6 ins., once transplanted | 18.00 | 162.00 |
| Juniperus squamata meyeri (Meyer Juniper) Dense, heavy, plumelike branches, deep blue. 6 to 9 ins., once transplanted | 21.00 | 189.00 |
| Kalmia latifolia (Mountain Laurel) Compact shrub, bouquets of lovely flowers. 6 to 9 ins., once transplanted | 21.00 | 189.00 |
| Mahonia aquifolium (Oregon Grape) An ornate little evergreen shrub. 6 to 9 ins., once transplanted | 15.00 | 135.00 |

DID YOU KNOW?

That when the flowers of Oregon Grape (*Mahonia aquifolium*) are even slightly disturbed as of a bee lighting the stamens snap together like a mousetrap thoroughly dusting the insect with pollen.

| | | |
|--|-------|--------|
| Osmanthus delegayi (Delavay Osmanthus) Fragrant white flowers. Lovely. 3 to 6 ins., once transplanted | 17.00 | 153.00 |
| Osmarea burkwoodi (Burkwood Osmarea) Fine foliage, white flowers. 3 to 6 ins., once transplanted | 16.00 | 144.00 |
| Pachysandra terminalis (Japanese Spurge) Evergreen and grows in dense masses. 1-yr. plants | 8.00 | 72.00 |
| Phillyrea decora (Lance-leaved Phillyrea) Elegant, round-topped shrub. White flowers. 3 to 6 ins., once transplanted | 16.00 | 144.00 |
| Picea engelmanni (Engelmann Spruce) Narrow pyramid, bluish-green to steel-blue foliage. 9 to 12 ins., once transplanted | 16.00 | 144.00 |
| Picea excelsa mucronata (Dwarf Norway Spruce) Dwarf, dense, rounded pyramid. One of the best. 3 to 6 ins., once transplanted | 18.00 | 162.00 |
| Picea excelsa nidiformis (Nest Spruce) Wonderful, dwarf, dark green, flattened globe. 3 to 6 ins., once transplanted | 18.00 | 162.00 |
| Picea glauca conica (Dwarf Alberta Spruce) Close, compact, narrow pyramid. In great demand. 1 to 3 ins., once transplanted | 14.00 | 126.00 |
| Pinus edulis (Nut or Pinyon Pine) Picturesque. Young growth, intensely blue. 6 to 9 ins., not transplanted | 10.00 | 90.00 |
| Spartium junceum (Weavers' Broom) Fragrant yellow flowers. 2 to 3 ft., not transplanted | 15.00 | 135.00 |
| Taxus baccata procumbens (Prostrate English Yew) Dwarf, compact, symmetrical. 3 to 6 ins., once transplanted | 17.00 | 153.00 |
| Thuja orientalis aurea nana (Berckmans Golden Arborvitae) Popular dwarf, golden arborvitae. 3 to 6 ins., once transplanted | 17.00 | 153.00 |

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HARDY AZALEAS

All azaleas are 2 to 3-yr. transplants, branched, and carry a small ball of soil.

AZALEA AMOENA. Very hardy evergreen foliage which turns rich bronze in winter. Semidouble, purple flowers. 4 to 6 ins., T. **\$15.00** per 100

AZALEA HINODEGIRI. Brilliant red. Most popular. Strong. 2-yr., 4 to 6 ins., T. **\$15.00** per 100

AZALEA JAPONICA. Very hardy. Wide range of color. Red, pink, yellow, etc. Deciduous. 6 to 8 ins., T. **\$25.00** per 100

AZALEA KAEMPFERI. Seedlings (Japanese seed). Tall-growing, large flowers in various shades of pink and red. Flowers profusely; blooms when evergreen types fail. Deciduous. 4 to 6 ins., T. **\$15.00** per 100

AZALEA KURUME. Very hardy. Will stand 19 degrees below zero. Gives a great variety of colors and types, from choice whites to orchids, deepest pinks and reds. Good evergreen foliage. 2-yr., 4 to 8 ins., T. **\$15.00** per 100

AZALEA SCHLIPPENBACHI. Considered by many the best azalea of all. Very large pink flowers; very large leaves which turn pink in fall. Deciduous. 4 to 6 ins., T., heavy. **\$25.00** per 100

AZALEA WHITE. Evergreen. Large flowers with a pink blush in throat, similar to but much harder than Azalea Indica Alba. 4 to 8 ins., T. **\$15.00** per 100

LEUCOTHOE CATESBAEI

A good broad-leaved evergreen that grows in dense shade. Lily-of-the-Valley like flowers, reddish-bronze foliage in winter. Contrasts well with Azaleas and Rhododendrons. Fine for flower arrangements. Each

4 to 6 ins., T. **15c**
6 to 8 ins., T. **20c**
8 to 10 ins., T. **25c**

PIERIS JAPONICA

The most beautiful broad-leaved evergreen of all. In summer the color of the foliage is always changing, first red, then pale green and then dark green. In August the flower buds form in graceful racemes for next spring's flowers. White Lily-of-the-Valley flowers appear with the first warm weather, and flowers often last 6 weeks. Grows well in sun or shade. Makes a nice contrast with Azaleas and Rhododendrons.

As far as we know, no nursery has ever had too much Pieris Japonica. We had over 10,000 18 to 24-in. plants a few years ago, and today we are so oversold on it that we cannot maintain a stock of 1,000 12 to 15-in. plants. It sells on sight and transplants easily at almost any time of the year. It grows rapidly into salable sizes. Can be used in any kind of planting. Can be transplanted into beds now. Each plant carries a nice ball of soil. 4 to 6 ins., T. **\$15.00** per 100

ILEX CRENATA CONVEXA

(Ilex Bullata)

Owing to our unusual success in propagating this desirable item, we offer it at a very low price. Over 150,000 in stock. It is a very choice, very hardy, low-growing evergreen with shiny, dark green, convex, boxwood-like leaves. Grows fast into money, up to 2 feet, and there slows down. Ultimate size 3 feet high and 4 feet wide. Easier to grow than Yews and can be used in sun or shade. Sells on sight. Grows very dense and contrasts well with other evergreens. Makes the perfect low hedge. Each

6 to 8 ins., 2-yr., T. **15c**
8 to 10 ins., 2-yr., T. **20c**

EUONYMUS ALATUS

(Cork Bark Euonymus)

Interesting corklike wings on branches. Red berries, foliage turns bright rose-pink in fall. Really spectacular then.

6 to 9 ins., T. **\$10.00** per 100
10 to 12 ins., T. **15.00** per 100

Send for list of rare plants.

ENKIANTHUS CAMPANULATUS

Can be transplanted into beds now.

For those desiring a different kind of plant for the shrub border or ericaceous plantings, we recommend Enkianthus campanulatus. Red stems, dark green leaves, cream to pink bell-like flowers that are useful for flower arrangements and a scarlet fall foliage.

4 to 8 ins., TT. **\$15.00** per 100
8 to 10 ins., TT. **25.00** per 100

JAPANESE BOXWOOD

Buxus Japonica is a little-appreciated evergreen because it is not well enough known. It grows fast up to 3 feet, shears well and can easily be kept at any size. Its light green, glossy leaves contrast well with other evergreens, and it will grow in sun or deepest shade—very hardy.

6 to 8 ins., 2-yr., T. **\$10.00** per 100
8 to 10 ins., 3-yr., T. **15.00** per 100

CALLUNA VULGARIS ALBA

Nice green foliage, white flowers.

6 to 8 ins., T. **\$15.00** per 100

VIBURNUM AMERICANUM

White flowers followed by red fruits in profusion. Very hardy.

10 to 12 ins., T. **\$7.50** per 100

TAXUS TRANSPLANTS

6 to 8 ins. Each
Cuspidata **20c**
Media browni **25c**
Media Hicksi **25c**
8 to 10 ins. **35c**

ALAN WOLD NURSERY

NESHAMINY, Bucks Co., PA.

mediately after lunch, Alden Hopkins, resident landscape architect at Colonial Williamsburg, will conduct congress participants on a tour of the restored Williamsburg gardens. A late afternoon tea, courtesy of Colonial Williamsburg, will precede dinner, at which time Mr. and Mrs. Raymond D. Wood will speak on "Flowers of the Midnight Sun."

Friday morning the garden writers will hold a second breakfast at 7:30. Committee and commission reports continue with those from member organizations. The latter session will be moderated by John H. Walker, executive secretary of the Society of American Florists. Dr. Russell J. Seibert, director of Longwood Gardens, Kennett Square, Pa., will report on international relations, and



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Dr. Harold B. Tukey, head of the department of horticulture, Michigan State University, East Lansing, will report on "International Horticultural Congress, 1966," with Dr. George H. M. Lawrence, director of the Bailey Hortorium, Cornell University, Ithaca, N. Y., presiding.

The luncheon speaker, Frank L. Teuton, research information officer, United States Department of Agriculture, will address the group on

"Research on Parade." The following session, "What's New in Horticulture," presided over by the Hon. Phillip J. Alampi, secretary of agriculture for New Jersey, will feature "Camellias," by Ralph E. Peer, president of the American Camellia Society; "Floriculture," by John H. Walker, executive secretary, Society of American Florists; "Hollies," by William F. Koser, plant breeder, United States National Arboretum, Washington, D. C.; "Roses," by



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*and it cost us less to build...hardly anything to maintain," says
Mr. Emmett Hignight, Hignight Greenhouses, East Moline, Illinois*



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"I've never seen such plant blooming! Thanks to our FILON roofing all of our stock thrived, even the plants that arrived frozen last February. They all got exactly the warmth they needed because the low, wide FILON roof span allows heat to remain closer to plants at bench level. FILON keeps heat loss to a bare minimum, so we get along with less costly heating equipment. We also found that by diffusing the sun's rays, FILON allows every plant to receive the same even amount of light. Now we can safely tier our benches and grow more plants in the same floor space."

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"Sno-Flock"

simulates wintry drifts on

**CHRISTMAS TREES
CUT BRANCHES
HOLLY CLUSTERS
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*profitably merchandises
the jingle bells spirit
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yours in four colors

**WHITE
PALE BLUE
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*Supplied in strong
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Within minutes, Sno-Flock dramatically transforms displays, trees, holly clusters, wreaths, cones, etc., into a wintry wonderland of products and profits.

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DEPT. AN-58

CLAREMONT FLOCK CORP.

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Richard Thomson, chairman, old rose committee, American Rose Society, and "Trees," by Frederick Heutte, superintendent, bureau of parks and forestry, Norfolk, Va.

At the concluding banquet special awards will be presented by the chairman, Dr. R. C. Allen, Kingwood Center. The Hon. Parke C. Brinkley, commissioner of the department of agriculture, commonwealth of Virginia, will be the featured speaker. The garden writers will hold their annual meeting at 9:30 p. m.

Optional postconvention tours of Jamestown and the Norfolk Botanical Gardens are scheduled for Saturday, October 25.

WISCONSIN SETS DATE

Thomas S. Pinney, Evergreen Nursery Co., Sturgeon Bay, Wis., secretary-treasurer of the Wisconsin Nurserymen's Association, announces that the annual meeting of the association has been scheduled for December 3 to 5. Sessions of the meeting will be held at the Hotel Schroeder, Milwaukee, Wis.

ARIZONA GROUP PREPARES

The eighth annual meeting of the Arizona Nurserymen's Association will be held December 9 and 10 at the Student Union building, on the campus of Arizona State College, Tempe. A short course planned for the meeting will be presented through the cooperation of A. S. C. and the University of Arizona, Tucson. According to present arrangements, the annual banquet will be held on the evening of December 9th at the Highway House motel, Phoenix.

NEW YORK REGULATION

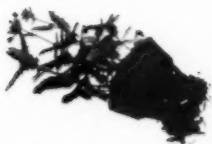
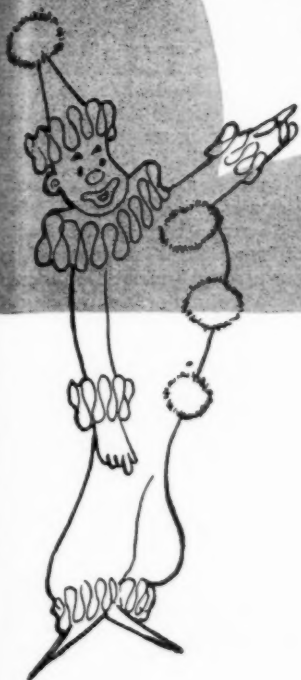
Effective October 1, 1958, all out-of-state nurseries and nursery dealers doing business in the state of New York are required to file a duplicate copy of their valid certificate of inspection. Further details of this new requirement may be obtained from Edwin W. Kirk, director, division of plant industry, department of agriculture and markets, state of New York, Albany, N. Y.

W. ATLEE BURPEE III has been appointed chairman of the national garden bureau, educational arm of the garden seed industry. He is assistant general manager of W. Atlee Burpee Co., Philadelphia, Pa. As chairman, Mr. Burpee succeeds James B. Massie.

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BIRD VITA-GREEN POTS

Ideal For Re-Sale

Contains roots an average of 8-10 weeks, disintegrates after transplanting. Nutrient treated. Especially durable for annuals, bedding plants and vegetable plants intended for re-sale. Five sizes — 2¼", 2½", 3", 3½", 4".



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Square or Round

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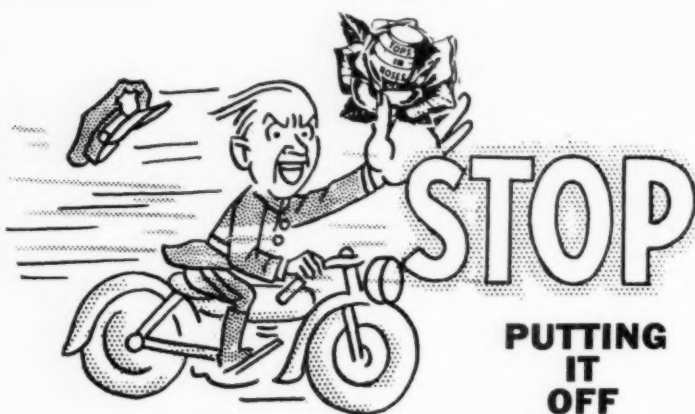
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COVER ILLUSTRATION

Juniperus Virginiana Pendula

The juniper genus is represented by numerous trees and shrubs of the pine family, and from its long-cultivated species many fine forms and varieties have been derived. *Juniperus virginiana*, widely known as red cedar, is one of the few native species and ranges from Canada to Florida, east of the Rocky mountains. The type is found in Virginia, a tree usually 40 to 50 feet high, but known to reach over 90 feet, with reddish-brown bark peeling off in long strips and upright branches forming a columnar or pyramidal



Foliage of *Juniperus Virginiana Pendula*

head, which becomes broader and spreading with age. The branchlets are slender, and leaves are of both needle and scale type. The scalelike leaves are pointed, adpressed and free at the tips; on young plants and vigorous shoots the needle-shaped leaves predominate (appearing in threes), are about $\frac{1}{4}$ inch long and are spiny. Both kinds of foliage are often present on mature plants.

In the species *virginiana* there are columnar, narrow-pyramidal, spreading, pendulous, low-spreading and dwarf forms, which are used extensively in meeting the requirements of ornamental and functional plantings, and the rugged nature of the species makes the various forms useful over a wide area.

Notably different from the formally precise forms so often seen is *J. virginiana pendula*, so named for the drooping habit of its branchlets; these pendulous, slender branchlets, hanging from almost horizontal branches, give the plant a pleasing

FLOCKING SUPPLIES

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All along the distribution line, *everybody profits big* from dealing with Floc-Flo. We originated ornamental-tree flocking—so we've had more experience with flocking machines and supplies than any manufacturer in the country. We know how to produce better for less—and pass on the savings directly to you!



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| White..... | 5 lbs..... | @ 80c lb..... | \$ 4.00 |
| | 25 lbs..... | @ 70c lb..... | 17.50 |
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| Ice Blue..... | 5 lbs..... | @ 84c lb..... | 4.20 |
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| | 50 lbs..... | @ 64c lb..... | 32.00 |
| Chilly Pink..... | 5 lbs..... | @ 84c lb..... | 4.20 |
| | 25 lbs..... | @ 74c lb..... | 18.50 |
| | 50 lbs..... | @ 64c lb..... | 32.00 |
| Soft Yellow..... | 5 lbs..... | @ 84c lb..... | 4.20 |
| | 25 lbs..... | @ 74c lb..... | 18.50 |
| | 50 lbs..... | @ 64c lb..... | 32.00 |
| Light Green..... | 5 lbs..... | @ 84c lb..... | 4.20 |
| | 25 lbs..... | @ 74c lb..... | 18.50 |
| | 50 lbs..... | @ 64c lb..... | 32.00 |

WHITE RAYON FLOCK: (Fire Retardant)
 5 lb. Bag or Box..... \$ 5.00 each
 10 lb. Bag or Box..... \$10.00 each
 25 lb. Bag..... .90 per lb.
 50 lbs. or over..... .80 per lb.

COLOR RAYON FLOCK: (Fire Retardant)
 5 lb. Bag or Box..... \$ 6.00 each
 10 lb. Bag or Box..... \$12.00 each
 25 lb. Bag..... 1.00 per lb.
 50 lbs. or over..... .90 per lb.

WHITE CELLO FLOCK: (Fire Retardant)
 25 lb..... \$.40 per lb..... \$10.00 each
 50 to 2000 lbs..... .30 per lb.
 2000 lbs. and over..... .20 per lb.

PERMANENT FLOCKING ADHESIVE:
 5 gallon lots..... \$3.65 per gallon
 50 gallon lots..... 2.65 per gallon

M L 26 ABSOLUTE FIRE PROOF FLOCKING - ADHESIVE CONCENTRATED - CONTAINS BLEACH TO AVOID DISCOLORING:
 50 gallons..... @ \$1.00 per gallon..... \$50.00
 30 gallons..... @ 1.50 per gallon..... 45.00
 5 gallons..... @ 1.75 per gallon..... 8.75

NO. 6-2X ADHESIVE SUPPLY TANK:
 No. 6-2X Adhesive supply tank 2 gallon Capacity..... \$39.50
 No. A-15-15 ft. Air Hose..... 5.25
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READY MIX GOLD PAINT:
 1 gallon..... \$7.40 per gallon
 5 gallons..... 6.80 per gallon
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SNO-STICK: (Fire Retardant)
 5 gallons..... \$2.50 per gallon
 30 gallons..... 2.00 per gallon
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FLAME STOP FOR FIRE-PROOFING TREES
 50 gallons..... (50 gallon lots)..... \$1.50 per gallon

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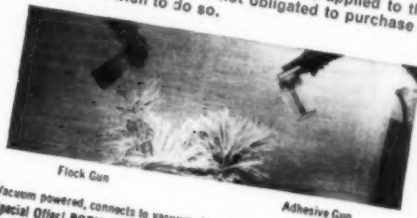
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 Three month flocking machine rental for \$150.00. This covers the entire Christmas Flocking Season, at the end of this season you may purchase the machine and your complete investment will be applied to the purchase price. You are not obligated to purchase if you do not wish to do so.



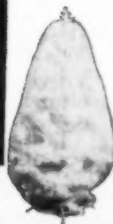
Flock Gun
 Vacuum powered, connects to vacuum cleaner.
 Special Offer! BOTH GUNS \$7.50

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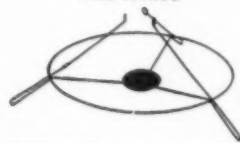
No. T-12 Electric Tree Flocking Turntable..... \$36.90 each



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52" width x 7 ft. long...
 @ 50c each in 50 bag lots,
 55c each—less than standard
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 72" width x 8 ft. long...
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26" "Wire Wonder" TREE STANDS



The most revolutionary on the market... takes just 2 minutes to mount a tree...

36 stands..... \$7.20
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 Stands in lots of 72 or more
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As all nurserymen know, customers, like bananas, come in bunches. That's part of the nursery business and you can't do much to control your flow of traffic. And you certainly can't do anything to change the weather! You CAN meet rush periods head on. BE READY for them by potting all your stock in handy, sturdy CLOVERSET POTS. Don't take chances on missing sales when the customer is ready to buy.

Like thousands of nurserymen, you will discover you make more sales at bigger profits at less total cost with CLOVERSET POTS. They're the most satisfactory plant containers you can buy and have been for 25 years! CLOVERSET POTS are ideal for inexpensive potting during slack times, profitable selling during rushes.

An even DOZEN reasons why Cloverset is best!

1. Lasts full year or more in the frame.
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11. Lightweight; saves freight costs.
12. Sufficiently low-priced for giveaway with plant.



THIS PAST SPRING with its prolonged rains and cold weather caused many nurserymen a lot of needless anxiety. Judging from the frantic calls and telegrams we got for Cloverset Pots from nurserymen trying to save their bare-root material at the last minute, there were many losses due to the late buying in 1958. It's well to remember that bare-root stock won't wait on the market. When the dormancy period is over, bare-root stock must be planted. To avoid cutting prices in order to move them quickly on a late market, pot your roses and other bare-root stock. Then you are assured full profit on quality plants that you can guarantee.

—Kenneth Haysler of Cloverset Farm.

**MAKE MORE MONEY
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| Size | Height | Top Diam. | Nearest Clay Pot | No. in Carton | WEIGHT Per 1000 | F.O.B. KANSAS CITY | | Cloverset Pot Prices F.O.B. Kansas City. |
|-------|------------|-----------|------------------|---------------|---------------------|--|----------|---|
| No. 0 | 5 1/2 ins. | 5 ins. | 6 ins. | 200 | 210 lbs. | Per 100 | Per 1000 | |
| No. 1 | 6 1/2 ins. | 6 ins. | 7 ins. | 100 | 340 lbs. | \$4.25 | \$40.00 | |
| No. 2 | 9 1/2 ins. | 7 ins. | 8 ins. | 100 | 535 lbs. | 5.25 | 50.00 | |
| No. 3 | 9 ins. | 8 ins. | 9 ins. | 100 | 600 lbs. | 5.75 | 55.00 | |
| | | | | | | 6.25 | 60.00 | |
| No. 4 | 13 ins. | 12 ins. | | 25 | Per 100 133 lbs. | 25 pots, \$7.70; 50 pots, \$14.60; 75, \$21.75; 100, \$26.15; 1000, \$231.00 | | |

ORDER NOW FOR FALL POTTING!

**Pot These Plants This Fall
For More Spring Sales . . .**

Flowering Almond
Flowering Quince
Mock Orange
Dogwood
Forsythia
Honeysuckle
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Malvaceae

Oriental Poppies
Iris
Small Lilies
Daylilies
Peonies
Bleeding Heart
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Our own high-Lindane formula, highly effective against both insects and plant diseases. Use as a dust or spray. In 50-lb. sacks and four retail sizes, all at regular trade discount.



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Use
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Please send items checked: I enclose.....c.

☐ Sample set of 5 pots at 50c (limit one).

☐ Information on Cloverset Pots and Cloverset Rose and Garden Dust.

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THIS BUSINESS OF OURS

Reflections on the Problems of Nurserymen

By E. Sam Hemming

CURBING

Curbing used in the landscape are necessary to achieve neatness, trim and finish. Without the proper use of curbing, either real or illusory, the picture never seems quite complete. Curbing are usually made of structural material, such as wood, concrete, steel, brick or stone, but they may be formed from plants or, as mentioned, may be indicated rather than actual. Curbing are used to separate or delineate one type of landscape area from another—a utilitarian or service area from the garden, or a structural or paved area from lawn or planted area.

Wood is not often used as curbing material in the humid east, while it is more extensively used in the drier west. There are, however, several places where the easterner may use wood attractively. It may be used to hold or contain a paved brick or stone terrace where its level is not much above the surrounding area. For this purpose, fairly heavy timbers should be used (6x6-inch at least) and they should be treated with creosote or with other rot proofing so that they will last six to 10 years. The use of narrow boards one to two inches thick as curbing for walks or paths is generally unsatisfactory, but may be used as an expedient. Rustic paths are sometimes attractively curbed by the use of 3 to 5-inch pole-size timber. The bark should be removed, to reduce rot, and the wood can be treated; the wood will not last too many years, but at least it is both easily and inexpensively relaid.

Concrete and Stone

Concrete curbs, though the least attractive, are one of the most durable forms. They are best used along streets and driveways, but rarely in gardens along lawns or recreational areas, with the exception of such grounds used by the public. Concrete curbs will stand considerable abuse when used to line a driveway and will even stand the bumps they will occasionally get.

Stone curbing are rarely used in the Maryland coastal section, for it is 100 miles from the nearest quarries. Stone is as durable as concrete and is more attractive, particularly if the material is selected for roughly

matching size. The chief trouble with stone is the cost of the material itself and of the labor involved. Old paving blocks removed from city streets make a fine curbing and when laid on a concrete foundation are permanent.

For utilitarian purposes, low cost and permanence, steel as a curbing is sure to increase in use. It is now much more readily available. Steel strips five or six inches wide and around 1/8-inch thick make a fine curbing for residential driveways and circles. Left exposed one-half to one inch, they easily contain slag, gravel or traprock, and if the paving is bound with asphalt, the appearance is attractive. The steel is avail-

able treated with rustoleum and is good for many years. For large flower beds and important walks either straight or curved, smaller grades may be used, and for small areas and paths, the light corrugated material available at garden and hardware stores is suitable.

Brick Curbs

Brick makes a curbing particularly suitable to areas influenced by colonial design. The material has a warm and mellow appearance. About the only disadvantage to the use of brick is that it breaks with the inevitable bumps and, if not set in concrete, is easily pushed out of line. I prefer bricks set on end rather than the sawtooth effect.

Plants used as curbing are not uncommon, but their use is usually restricted to areas where they will get no abuse and will not be stepped on. In such locations, dwarf English box and other dwarf, compact evergreens are best used. There is one exception to plants that will stand no

HYBRID RHODODENDRONS

Grown in full sun in open fields. Compact plants, excellent foliage and well-budded.

AMERICA: Red ROSEUM ELEGANS: Rose-Pink

| | Each 10 rate | Each 100 rate |
|---------------------------|-----------------|------------------|
| 15 to 18 ins., B&B | \$3.50 | \$3.00 |
| 18 to 24 ins., B&B | 5.00 | 4.50 |
| 2 to 2 1/2 ft., B&B | 7.00 | 6.50 |
| 2 1/2 to 3 ft., B&B | 8.00 | 7.50 |

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Springfield, N. J.

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Northern-grown, hardy azaleas, well-budded, sheared, heavy stock, field-grown, excellent foliage, over 200,000 for fall and spring delivery. All B&B.

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|------------------------------|--------|------------------------------|--------|---|--------|
| Amoena | | Maxwelli | | Favorite | |
| 8 ins. | \$0.75 | 8 ins. | \$0.75 | 8 ins. | \$0.75 |
| 10 ins. | 1.00 | 10 ins. | 1.00 | 10 ins. | 1.00 |
| 12 ins. | 1.25 | 12 ins. | 1.25 | 12 ins. | 1.25 |
| 15 ins. | 2.00 | 15 ins. | 2.00 | 15 ins. | 2.00 |
| 18 ins. | 2.50 | 18 ins. | 2.50 | 18 ins. | 2.50 |
| Coral Bells | | Louise Gable | | Polaris | |
| 6 ins. | .50 | 6 ins. | .75 | 8 ins. | .75 |
| 8 ins. | .75 | 8 ins. | 1.00 | 10 ins. | 1.00 |
| 10 ins. | 1.00 | 10 ins. | 1.25 | 12 ins. | 1.25 |
| 12 ins. | 1.25 | 12 ins. | 1.50 | 15 ins. | 2.00 |
| 15 ins. | 2.00 | 15 ins. | 2.50 | 18 ins. | 2.50 |
| Hinodegiri | | Rose Bud | | Beethoven | |
| Our Hinos are very dark red. | | 6 ins. | .75 | 6 ins. | .50 |
| 6 ins. | .50 | 8 ins. | 1.00 | 8 ins. | .75 |
| 8 ins. | .75 | 10 ins. | 1.25 | 10 ins. | 1.00 |
| 10 ins. | 1.00 | 12 ins. | 1.50 | 12 ins. | 1.25 |
| 12 ins. | 1.25 | 15 ins. | 2.50 | 15 ins. | 2.00 |
| 15 ins. | 2.00 | 18 ins. | 3.50 | 18 ins. | 2.50 |
| 18 ins. | 2.50 | 24 ins. | 6.50 | 20 ins. | 3.50 |
| 20 ins. | 3.50 | Rose Greely | | Johann Strauss | |
| 24 ins. | 5.00 | 6 ins. | .75 | 8 ins. | .75 |
| 30 ins. | 6.00 | 8 ins. | 1.00 | 10 ins. | 1.00 |
| 36 ins. | 7.50 | 10 ins. | 1.25 | 12 ins. | 1.25 |
| Orange Beauty, Kurume | | 12 ins. | 1.50 | 15 ins. | 2.00 |
| 6 ins. | .50 | 15 ins. | 2.50 | 18 ins. | 2.50 |
| 8 ins. | .75 | 18 ins. | 3.50 | 20 ins. | 3.50 |
| 10 ins. | 1.00 | 24 ins. | 6.50 | Lilacina | |
| 12 ins. | 1.25 | Addy Wery | | 8 ins. | .75 |
| 15 ins. | 2.00 | 6 ins. | .75 | 10 ins. | 1.00 |
| 18 ins. | 2.50 | 8 ins. | 1.00 | 12 ins. | 1.25 |
| Hino-Crimson | | 10 ins. | 1.25 | 15 ins. | 2.00 |
| 6 ins. | .50 | 12 ins. | 1.50 | 18 ins. | 2.50 |
| 8 ins. | .75 | 15 ins. | 2.50 | 20 ins. | 3.50 |
| 10 ins. | 1.00 | 18 ins. | 3.50 | 24 ins. | 5.00 |
| 12 ins. | 1.25 | Apple Blossom, Kurume | | Kaempferi | |
| 15 ins. | 2.00 | 6 ins. | .50 | Hardest of all azaleas; sheared, | |
| 18 ins. | 2.50 | 8 ins. | .75 | well-budded, heavy. | |
| Snow | | 10 ins. | 1.00 | Othello, Salmon Beauty, Fedora and | |
| 6 ins. | .50 | 12 ins. | 1.25 | Carmen. | |
| 8 ins. | .75 | 15 ins. | 2.00 | 8 ins. | .75 |
| 10 ins. | 1.00 | 18 ins. | 2.50 | 10 ins. | 1.00 |
| 12 ins. | 1.25 | 20 ins. | 3.50 | 12 ins. | 1.25 |
| 15 ins. | 2.00 | 24 ins. | 5.00 | 15 ins. | 2.00 |
| Ledifolia Alba | | Daybreak, Kurume | | 18 ins. | 2.50 |
| 6 ins. | .50 | 6 ins. | .50 | 20 ins. | 3.50 |
| 8 ins. | .75 | 8 ins. | .75 | 24 ins. | 5.00 |
| 10 ins. | 1.00 | 10 ins. | 1.00 | 30 ins. | 6.00 |
| 12 ins. | 1.25 | 12 ins. | 1.25 | 36 ins. | 7.50 |
| 15 ins. | 2.00 | 15 ins. | 2.00 | | |
| 18 ins. | 2.50 | 18 ins. | 2.50 | | |
| 20 ins. | 3.50 | 20 ins. | 3.50 | | |
| 24 ins. | 5.00 | | | | |

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abuse. The English ivy can be sheared to form a narrow curb along a driveway, where it will hold in small stones or pebbles that may be thrown into it by car tires or if, at rare intervals, it is run over, it will survive and maintain its attractive appearance, while plants like box would be destroyed.

The creation of an illusory curb is usually accomplished by neatly edging an area with a spade and raking clean. This effect can be particularly attractive, but it does require maintenance effort. E. S. H.

CLASSIFICATION SYSTEM

A new, mechanized technique of plant classification was announced and explained at the meeting of the American Institute of Biological Sciences held August 24 to 28 at Indiana University, Bloomington, Ind. The new technique, developed by Dr. D. J. Rogers, New York Botanical Garden, New York, N. Y., and Dr. T. T. Tanimoto, International Busi-

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| (2-0), 2-yr., S., 2 to 3 ins. | \$ 7.90 | \$18.00 |
| (2-0), 2-yr., S., 3 to 5 ins. | 8.00 | 22.00 |
| (1-2), 3-yr., T., 5 to 10 ins. | 10.00 | 50.00 |
| (2-2), 4-yr., T., 6 to 12 ins. | 12.00 | 60.00 |
| (2-2), 4-yr., T., 8 to 14 ins. | 16.00 | 90.00 |
| Scotch Pine (<i>Pinus sylvestris</i>) | | |
| (2-0), 2-yr., S., 2 to 4 ins. | 4.00 | 12.50 |
| (2-0), 2-yr., S., 3 to 6 ins. | 5.00 | 14.00 |
| (2-0), 2-yr., S., 4 to 8 ins. | 6.00 | 20.00 |
| (2-0), 3-yr., S., 8 to 15 ins. | 8.00 | 25.00 |
| (2-0), 4-yr., T., 6 to 10 ins. | 10.00 | 50.00 |
| (2-2), 4-yr., T., 8 to 14 ins. | 15.00 | 60.00 |
| Blue Spruce (<i>Picea pungens</i>) (Colorado Blue Spruce) | | |
| (2-0), 2-yr., S., 2 to 3 ins. | 4.00 | 20.00 |
| (2-0), 2-yr., S., 3 to 4 ins. | 6.00 | 25.00 |
| (3-0), 3-yr., S., 3 to 4 ins. | 8.00 | 30.00 |
| (3-0), 3-yr., S., 4 to 6 ins. | 10.00 | 40.00 |
| Austrian Pine (<i>Pinus nigra</i>) | | |
| (2-0), 2-yr., S., 2 to 4 ins. | 4.00 | 20.00 |
| (2-0), 2-yr., S., 3 to 6 ins. | 6.00 | 25.00 |
| (2-2), 4-yr., T., 5 to 10 ins. | 15.00 | 70.00 |
| White Spruce (<i>Picea alba</i>), excellent blue-gray color | | |
| (2-0), 2-yr., S., 3 to 6 ins. | 5.00 | 25.00 |
| (3-0), 3-yr., S., 4 to 8 ins. | 6.00 | 30.00 |
| (3-0), 3-yr., S., 5 to 10 ins. | 10.00 | 45.00 |
| Concolor Fir (<i>Abies concolor</i>) | | |
| (2-0), 2-yr., S., 2 to 3 ins. | 8.00 | ... |
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| Douglas Fir | | |
| (2-0), 2-yr., S., 2 to 3 ins. | 6.00 | 25.00 |
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FLOWERING CRAB APPLES — HEAVY SPECIMENS

Hopa, Red Silver, Dolgo, Almey, Baccata, Eley, Floribunda

2 to 2½-in. cal., 26-in. ball, \$13.50

2½ to 3-in. cal., 30-in. ball, \$24.50

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ness Machines Corp., uses a large-scale I. B. M. 704 data-processing system to classify plants automatically according to their individual characteristics.

The new technique begins with an exacting description of the plant. Up to 100 characteristics, including size, color, root structure, leaf structure and stem structure, are recorded in punched I. B. M. cards. Decks of these cards are then fed into the I. B. M. 704 computer. The computer analyzes the data on each card and automatically classifies the plants into natural groups or clusters, with each cluster being determined by the over-all physical similarities of the plants that comprise it. Because it analyzes such a great number of characteristics, the computer is said to be capable of detecting subtle similarities that link plants to certain groups and that otherwise might not be apparent even to a skilled botanist.

SHADE TREE CONFERENCE

[Continued from page 11]

proposed to continue the current project involving analyses of leaf tissue to determine nutritional requirements of trees. He said the amount in the fund was sufficient to warrant consideration of a second project and invited suggestions from the membership as to the type of research that might be undertaken.

In the report of the slide library committee, Dr. Spencer H. Davis, chairman, college farm, Rutgers University, New Brunswick, N. J., stated that a listing of the slides now in the library had been mailed to all members of the N. S. T. C. These slides, he said, are available to any member for use at local meetings. A nominal charge is made to cover mailing costs. There are five sets of slides covering general arboriculture, tree species, tree insects, tree injuries and tree diseases.

In reporting the activities of the nomenclature and standards committee, Chairman Richard J. Campana recommended that future work of this committee include the formulation of a model licensing law for arborists, which could be used as a guide in any state where such legislation is considered. The report and recommendation were approved by vote of the board of governors.

Urges Evaluation Change

Norman Armstrong, Chapel Hill, N. C., chairman of the shade tree evaluation committee, recommended creation of subcommittees in several sections of the country to make a reclassification and evaluation of

FIELD-GROWN LINING-OUT STOCK

Transplanted stock grown in open field beds.

| | Each 100 rate | Each 1000 rate | | Each 100 rate | Each 1000 rate | | Each 100 rate | Each 1000 rate |
|---|---------------------|----------------------|--|---------------------|----------------------|---|---------------------|----------------------|
| Azalea mollis (Chinese Azalea) | | | Hex rotundifolia (Round- leaved Japanese Holly) | | | Pieris japonica (Japanese Andromeda) | | |
| Flame shades, mixed | | | 6 to 8 ins., 1-yr., T. | \$0.25 | \$0.22 | 6 to 8 ins., 2-yr., T. | \$0.35 | \$0.32 |
| 6 to 8 ins., 2-yr., T. | \$0.22 | \$0.18 | 8 to 10 ins., 2-yr., T. | .38 | .35 | 8 to 12 ins., 3-yr., T. | .45 | .40 |
| 8 to 10 ins., 3-yr., T. | .35 | .30 | 10 to 12 ins., 2-yr., T. | .48 | .45 | 10 to 15 ins., 3-yr., T. | .65 | .60 |
| 8 to 12 ins., 3-yr., T. | .45 | .40 | 12 to 18 ins., 3-yr., T. | .60 | .50 | | | |
| Azalea Ghent pontica , pastel shades Very hardy. | | | field-row spaced | 1.00 | .90 | Pinus mugho (Dwarf Mugho Pine) | | |
| 2 to 4 ins., 2-yr., T. | .30 | .28 | | | | 3 to 5 ins., 3-yr., T. | .20 | .18 |
| 4 to 6 ins., 2-yr., T. | .35 | .32 | Juniperus Andorra (Purple Andorra Juniper) | | | 5 to 8 ins., 4-yr., T. | .25 | .20 |
| 4 to 8 ins., 3-yr., T. | .45 | .40 | 6 to 8 ins., 1-yr., T. | .30 | | Pinus nigra (Austrian Pine) | | |
| Azalea mucronulatum , lavender | | | 8 to 10 ins., 2-yr., T. | .45 | .40 | 5 to 10 ins., 4-yr., T. | .15 | .10 |
| 4 to 8 ins., 2-yr., T. | .35 | .32 | 10 to 12 ins., 3-yr., T. | .50 | .45 | 8 to 12 ins., 5-yr., T. | .22 | .18 |
| 8 to 10 ins., 3-yr., T. | .45 | .40 | 12 to 15 ins., 4-yr., T. | .60 | .55 | 10 to 15 ins., 5-yr., T. | .28 | .22 |
| 10 to 15 ins., 3-yr., T. | .55 | .50 | | | | Pyracantha coccinea laudii (Firethorn) | | |
| Buxus sempervirens welleri (Weller's Hardy Boxwood) | | | Juniperus canadensis aurea (Golden Canadian Juniper), spreader | | | 6 to 8 ins., 2-yr., T. | .32 | .30 |
| 4 to 6 ins., 2-yr., T. | .28 | .25 | 4 to 6 ins., 1-yr., T. | .25 | .22 | 8 to 12 ins., 2-yr., T. | .40 | .38 |
| 6 to 8 ins., 2-yr., T. | .35 | .32 | 6 to 8 ins., 2-yr., T. | .35 | .32 | 10 to 15 ins., 2-yr., T. | .45 | .40 |
| 8 to 10 ins., 3-yr., T. | .45 | .40 | 8 to 10 ins., 3-yr., T. | .45 | .40 | | | |
| 10 to 15 ins., 3-yr., T. | .55 | .50 | Juniperus glauca hetzi (Hetz Juniper) | | | Rhododendron Hybrid , various colors Seedling-grown from red plants, very hardy. | | |
| Chamaecyparis filifera aurea (Golden Thread Cypress) | | | 8 to 12 ins., 2-yr., T. | .35 | .30 | 3 to 5 ins., 3-yr., T. | .45 | .40 |
| 8 to 10 ins., 3-yr., T. | .45 | .40 | 10 to 12 ins., 3-yr., T. | .40 | .35 | 5 to 8 ins., 4-yr., T. | .55 | .50 |
| Chamaecyparis lawsoniana allumi Columnar, blue. | | | 12 to 15 ins., 3-yr., T. | .55 | .48 | 8 to 10 ins., 4-yr., T. | .65 | .60 |
| 8 to 10 ins., 2-yr., T. | .30 | .28 | 12 to 18 ins., 3-yr., T., cut back | .65 | .60 | 10 to 15 ins., 4-yr., T. | 1.00 | .90 |
| 10 to 12 ins., 3-yr., T. | .45 | .40 | | | | Rhododendron catawbiense (Catawba Rhododendron) | | |
| 12 to 15 ins., 3-yr., T. | .55 | .50 | Juniperus hibernica fastigiata (Compact Irish Juniper) | | | 2 to 4 ins., 3-yr., T. | .35 | .32 |
| Chamaecyparis plumosa aurea (Golden Plummed Cypress) | | | 8 to 10 ins., 2-yr., T. | .35 | .30 | 4 to 8 ins., 3-yr., T. | .45 | .40 |
| 6 to 8 ins., 2-yr., T. | .35 | .30 | 10 to 12 ins., 2-yr., T. | .38 | .33 | Rhododendron maxima | | |
| 8 to 10 ins., 2-yr., T. | .40 | .35 | 12 to 18 ins., 3-yr., T. | .45 | .40 | 2 to 4 ins., 3-yr., T. | .35 | .32 |
| 10 to 15 ins., 3-yr., T. | .50 | .45 | Juniperus horizontalis glauca Blue-green spreader. Very low. | | | 4 to 8 ins., 3-yr., T. | .45 | .40 |
| Chamaecyparis squarrosa , mossy, green foliage | | | 6 to 8 ins., 2-yr., T. | .35 | .32 | 8 to 12 ins., 3-yr., T. | .50 | .45 |
| 8 to 12 ins., 3-yr., T. | .35 | .32 | 8 to 10 ins., 2-yr., T. | .40 | .35 | Sophora japonica (Japanese Pagoda Tree) | | |
| Coloneaster horizontalis (Rock Spray) | | | 10 to 15 ins., 3-yr., T. | .50 | .45 | 4 to 8 ins., 3-yr., T. | .25 | .20 |
| 4 to 6 ins., 3-yr., T. | .25 | .22 | Juniperus pfitzeriana | | | 10 to 15 ins., 3-yr., T. | .35 | .32 |
| 6 to 10 ins., 3-yr., T. | .38 | .32 | 8 to 10 ins., 2-yr., T. | .45 | .40 | Taxus capitata (Upright Japanese Yew), seed-grown | | |
| Euonymus fortunei coloratus Procumbent broad-leaved ever- green creeper. | | | 10 to 15 ins., 3-yr., T. | .55 | .50 | 4 to 6 ins., 3-yr., T. | .35 | .30 |
| 8 to 12 ins., 2-yr., T. | .25 | .22 | Juniperus pfitzeriana compacta Nelson variety blue spreader. | | | 6 to 8 ins., 4-yr., T. | .40 | .35 |
| 12 to 18 ins., 3-yr., T. | .35 | .32 | 6 to 8 ins., 3-yr., T. | .35 | .30 | 8 to 10 ins., 4-yr., T. | .50 | .48 |
| Euonymus fortunei erectus (Big-leaved Winter Creeper) | | | 8 to 10 ins., 4-yr., T. | .45 | .40 | 10 to 15 ins., 4-yr., T. | .75 | .65 |
| 10 to 15 ins., 3-yr., T. | .35 | .30 | 10 to 12 ins., 3-yr., T. | .55 | .50 | Taxus cuspidata (Spreading Yew) | | |
| 12 to 18 ins., 3-yr., T. | .45 | .42 | 12 to 15 ins., 4-yr., T. | .65 | .55 | 6 to 8 ins., 2-yr., T. | .38 | .35 |
| Euonymus radicans vegetus (Evergreen Winter Creeper) | | | Juniperus pfitzeriana aurea (Golden Pfitzer Juniper) | | | 8 to 10 ins., 2-yr., T. | .45 | .40 |
| Orange berries. | | | 8 to 10 ins., 2-yr., T. | .40 | .35 | 10 to 15 ins., 3-yr., T. | .55 | .50 |
| 8 to 10 ins., 2-yr., T. | .35 | .32 | 10 to 12 ins., 2-yr., T. | .50 | .45 | Thuja occidentalis douglasii aurea (Geo. Peabody Arborvitae) | | |
| 10 to 15 ins., 3-yr., T. | .45 | .40 | 12 to 15 ins., 3-yr., T. | .60 | .55 | Golden pyramid. | | |
| 12 to 18 ins., 4-yr., T. | .50 | .45 | Juniperus stricta (Spiny Greek Juniper) | | | 6 to 8 ins., 2-yr., T. | .35 | .32 |
| Euonymus alatus (Winged Euonymus) | | | 6 to 8 ins., 2-yr., T. | .40 | .35 | 8 to 10 ins., 3-yr., T. | .45 | .40 |
| 4 to 6 ins., 3-yr., S. | .18 | .15 | 8 to 12 ins., 3-yr., T. | .48 | .42 | 10 to 12 ins., 3-yr., T. | .55 | .50 |
| 6 to 10 ins., 3-yr., S. | .25 | .22 | 12 to 15 ins., 3-yr., T. | .55 | .50 | 12 to 15 ins., 4-yr., field, T. | .55 | .50 |
| 10 to 15 ins., 3-yr., S. | .38 | .32 | Koeleria paniculata (Golden-Rain Tree) | | | 15 to 24 ins., 4-yr., T. | .65 | .60 |
| Hex crenata (Japanese Holly), pyramidal | | | 5 to 12 ins., 3-yr., field, T. | .92 | .88 | Thuja occidentalis elegantissima lutea Foliage golden tipped over dark green. | | |
| 6 to 8 ins., 1-yr., T. | .25 | .20 | 12 to 24 ins., 4-yr., field, T. | .35 | .32 | 6 to 8 ins., 2-yr., T. | .35 | .30 |
| 8 to 10 ins., 2-yr., T. | .35 | .32 | Leucothoe catesbaei (Drooping Leucothoe) | | | 8 to 10 ins., 2-yr., T. | .40 | .35 |
| 10 to 15 ins., 3-yr., T. | .48 | .45 | 8 to 10 ins., 3-yr., T. | .35 | .30 | 10 to 12 ins., 3-yr., T. | .48 | .45 |
| 12 to 18 ins., 3-yr., T. | .65 | .60 | 10 to 12 ins., 3-yr., T. | .45 | .40 | 12 to 15 ins., 3-yr., T. | .55 | .50 |
| Hex crenata convexa (bullata) (Box-leaved Holly) | | | 12 to 15 ins., 3-yr., T. | .55 | .50 | Thuja occidentalis pyramidalis | | |
| 6 to 8 ins., 1-yr., T. | .25 | .22 | Liquidambar styraciflua (Sweet Gum) | | | 10 to 12 ins., 2-yr., T. | .45 | .40 |
| 8 to 10 ins., 2-yr., T. | .38 | .35 | 2-yr., S., bed run | .10 | .08 | 12 to 15 ins., 2-yr., T. | .55 | .50 |
| 10 to 12 ins., 2-yr., T. | .48 | .45 | 10 to 15 ins., 2-yr., S. | .12 | .10 | 15 to 18 ins., 4-yr., T. | .65 | .60 |
| 12 to 15 ins., 3-yr., T. | .65 | .60 | 12 to 18 ins., 3-yr., T. | .90 | .88 | 18 to 24 ins., 4-yr., T. | .70 | .65 |
| 12 to 18 ins., 5-yr., field-row spaced | 1.00 | .90 | 18 to 30 ins., 3-yr., T. | .25 | .22 | Tsuga canadensis (Hemlock) | | |
| Hex crenata hetzi An improved form of convexa. | | | Mahonia aquifolium (Oregon Grape Holly) | | | 6 to 8 ins., 3-yr., T. | .35 | .32 |
| 6 to 8 ins., 2-yr., T. | .30 | .28 | 2 to 5 ins., 3-yr., S. | .20 | .18 | 8 to 10 ins., 4-yr., T. | .40 | .35 |
| 8 to 10 ins., 2-yr., T. | .40 | .38 | 2 to 5 ins., 3-yr., field | .25 | .20 | 10 to 15 ins., 4-yr., T. | .55 | .50 |
| 10 to 15 ins., 3-yr., T. | .55 | .50 | Picea pungens (Colorado Blue Spruce) | | | Viburnum opulus nanum (Dwarf Bush Cranberry) | | |
| Hex crenata helleri (Heller's Dwarf Holly) | | | 4 to 6 ins., 4-yr., T. | .20 | .18 | 2-yr., field, T. | .25 | .22 |
| 3 to 6 ins., 2-yr., T. | .35 | .32 | 6 to 8 ins., 4-yr., T. | .30 | .28 | 4 to 8 ins., 3-yr., T. | .35 | .32 |
| 4 to 8 ins., 3-yr., T. | .45 | .40 | | | | 6 to 10 ins., 4-yr., T., very bushy | .45 | .42 |

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| 24 to 27 ins. | 6.00 |
| 27 to 30 ins. | 7.00 |
| 2½ to 3 ft. | 8.50 |
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| 6 to 9 ins., S. | 5.00 | 30.00 |
| 9 to 12 ins., S. | 9.00 | 70.00 |
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trees in those areas to obtain more exact data than are presently available.

He expressed his belief that tree species which are small at maturity should be given a higher value per square inch of trunk cross section than larger-growing species. Stating that \$5 per square inch of trunk cross section originally was advocated as a fair basic figure for estimating the value of large-growing tree species, he suggested that this figure might now be increased to \$6 or more according to the cost of living index in the community involved.

The arboriculture film committee report was given by Chairman Noel B. Wysong, chief forester, Cook county forest preserve district, River Forest, Ill., who said that activities of the committee during the past year were concentrated on securing funds to meet expenses of producing the film.

During the year approximately \$4,400 was contributed, making a total of \$11,421.97 in the film fund as of August 25, 1958. Pointing out that about \$11,000 more was needed to meet the anticipated cost of producing the film, he recommended the appointment of a special committee to secure funds for completion of the project. Following acceptance of his report, members moved, seconded and passed by vote that John Ott Pictures, Inc., Winnetka, Ill., be authorized to proceed immediately with production of the arboriculture film.

Later in the conference, the film fund as given in the report was augmented by a \$1,000 donation from the Western chapter of the National Shade Tree Conference. This sum was presented by Keith L. Davey, president of the Western chapter, in memory of Roger F. Sohner, San Anselmo, Calif., a member of long standing of the Western chapter, who died a few days prior to the Asheville meeting.

The final item of business concerned plans for the 1959 and 1960 conference meetings in Detroit, Mich., and Boston, Mass., respectively, and choice of cities in which to hold the 1961 and 1962 conventions. Acting upon the vote of the board of governors, conference members chose Minneapolis, Minn., as the meeting site for the 1961 conference, and San Francisco, Calif., for the 1962 meeting. The next meeting of the N. S. T. C. will be held August 16 to 21, 1959, at the Statler hotel, Detroit, Mich.

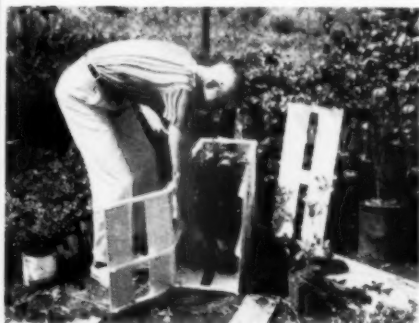
The conference was formally declared in session at 10:30 Monday



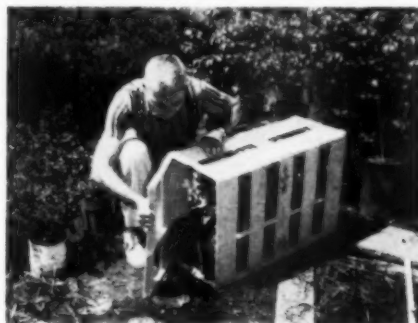
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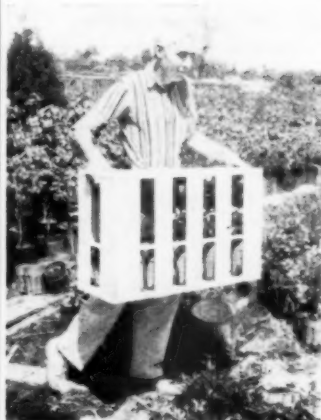


This custom crate is designed to carry 10 1-gallon containers. Cans lock in place under cleats on all sides. Maintainers available with plant clearances of 12 ins., 24 ins. and 30 ins. and to fit any type or size can.

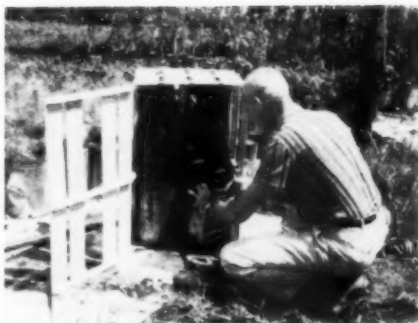


Top is attached before or after packing and easily closed with loop fasteners.

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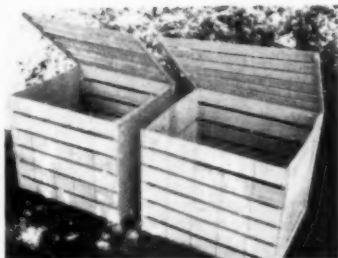


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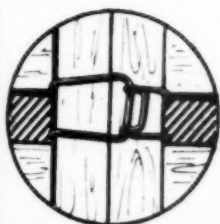
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| 36x24x24 ins. | 24x18x14 ins. |

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| 72x24x24 ins. | 48x18x14 ins. |
| 72x18x14 ins. | |



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morning by President Marvin E. Fowler, northeastern forest experiment station, Upper Darby, Pa. Following the invocation by the Rev. W. Melvin Maxey, assistant rector, Trinity Episcopal church, Asheville, a welcome was extended to conference delegates by the Honorable Earl W. Eller, mayor of the city of Asheville.

The first formal paper on the educational program was presented by Erle Cocke, Jr., vice-president, Delta Airlines, Atlanta, Ga., who spoke on the subject "Important Factors for a Stronger America." Mr. Cocke told of his experiences during a visit to Russia and spoke of the rigorous living conditions in the Soviet Union as compared with those in America. He stated that although Russia has a slave economy it is challenging America in every phase of business and must be recognized as a threat to the American way of life.

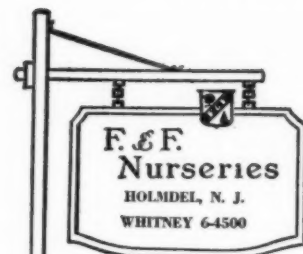
For America to retain its position of leadership in the world, Mr. Cocke said, we must return to the moral and spiritual values of our forefathers and take a more active and intelligent interest in political activities.

Drought Effects

"Effect of Drought on Plant Growth" was ably discussed by Kenneth W. Reisch, department of horticulture, Ohio State University, Columbus. Defining drought as a period when the soil moisture is lowered to the extent that none is available to the plant, Dr. Reisch said that water constitutes a major portion of any part of a plant. For example, 70 per cent of a beech leaf is water, and 40 to 50 per cent of the trunk of an aspen is water.

Water enters a plant through root absorption and is carried to all upper parts of the plant by the pull exerted through evaporation. Water vapor loss may occur through all openings in the surface of the parts of a plant, such as the stoma and lenticels, and through breaks in the surface caused by injuries. It said that the annual water loss in an oak forest is equivalent to 17 to 22 inches of rainfall.

Dr. Reisch listed the effects of water loss and drought upon a plant as follows: (1) Stunting of growth; (2) closing of stomata earlier each day as the water shortage becomes more acute; (3) reduction in the rate of photosynthesis; (4) reduction in the ability of the roots to take in water; (5) drying of leaf margins, wilting and premature leaf drop; (6) leaf scorch, caused by reduced water intake; (7) general weakening



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Crimson King

1 1/2 to 1 3/4-in. cal.; 1 3/4 to 2-in. cal.

Norway Maple

1 1/2 to 1 3/4-in. cal.; 1 3/4 to 2-in. cal.

Pin Oak

2 to 2 1/2-in. cal.; 2 1/2 to 3-in. cal.

Red Oak

1 3/4 to 2-in. cal.; 2 to 2 1/2-in. cal.

London Plane Tree

1 1/2 to 1 3/4-in. cal.; 1 3/4 to 2-in. cal.



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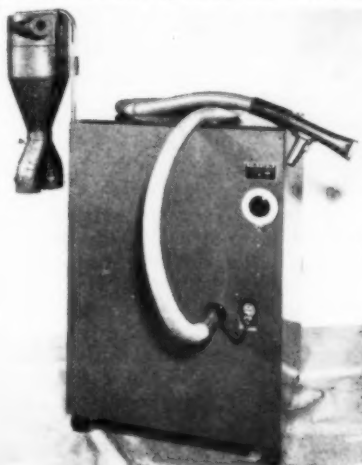
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- **PRICE**—Competitively priced. High production and reclaiming features easily pay for cost of machine.
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| (2-0), 2-yr., S., 4 to 6 ins. | 4.00 | 22.50 |
| (3-0), 3-yr., S., 8 to 16 ins. | 6.00 | 35.00 |
| (2-1), 3-yr., T., 4 to 6 ins. | 7.00 | 45.00 |
| (2-2), 4-yr., T., 8 to 15 ins. | 8.50 | 55.00 |
| (2-3), 5-yr., T., 15 to 24 ins. | 10.00 | 70.00 |
| AUSTRIAN PINE (<i>Pinus nigra</i>) | | |
| (2-0), 2-yr., S., 3 to 5 ins. | 3.50 | 20.00 |
| (3-0), 3-yr., S., 5 to 10 ins. | 6.00 | 35.00 |
| WHITE PINE (<i>Pinus strobus</i>) | | |
| (2-0), 2-yr., S., 3 to 6 ins. | 4.50 | 25.00 |
| (3-0), 3-yr., S., 4 to 8 ins. | 6.00 | 35.00 |
| (2-1), 3-yr., T., 3 to 6 ins. | 7.00 | 45.00 |
| COLORADO BLUE SPRUCE (<i>Picea pungens</i>) | | |
| (2-0), 2-yr., S., 3 to 6 ins. | 4.00 | 22.50 |
| (3-0), 3-yr., S., 5 to 12 ins. | 6.50 | 40.00 |
| (2-1), 3-yr., T., 4 to 8 ins. | 7.50 | 50.00 |
| NORWAY SPRUCE (<i>Picea abies</i>) | | |
| (2-0), 2-yr., S., 4 to 6 ins. | 4.50 | 25.00 |
| (3-0), 3-yr., S., 5 to 10 ins. | 6.50 | 40.00 |
| (2-1), 3-yr., T., 4 to 7 ins. | 7.50 | 50.00 |
| (2-2), 4-yr., T., 5 to 10 ins. | 9.00 | 60.00 |
| WHITE SPRUCE (<i>Picea glauca</i>) | | |
| (2-0), 2-yr., S., 3 to 6 ins. | 4.00 | 22.50 |
| (3-0), 3-yr., S., 5 to 12 ins. | 6.50 | 40.00 |
| (2-1), 3-yr., T., 4 to 8 ins. | 7.50 | 50.00 |
| (2-2), 4-yr., T., 5 to 10 ins. | 9.00 | 60.00 |
| (3-2), 5-yr., T., 8 to 16 ins. | 11.00 | 80.00 |
| DOUGLAS FIR (<i>Pseudotsuga taxifolia</i>) (Blue) | | |
| (2-0), 2-yr., S., 3 to 6 ins. | 5.50 | 30.00 |
| (3-0), 3-yr., S., 5 to 12 ins. | 7.00 | 45.00 |
| (2-1), 3-yr., T., 4 to 7 ins. | 8.50 | 55.00 |
| From winter hardy Columbia seed (Gray) | | |
| (2-0), 2-yr., S., 4 to 9 ins. | 5.50 | 30.00 |
| (3-0), 3-yr., S., 5 to 12 ins. | 6.50 | 40.00 |
| (2-1), 3-yr., T., 3 to 6 ins. | 7.50 | 50.00 |

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of plants, causing greater susceptibility to disease and insect attack; (8) lesions or bleeding cankers on the trunk; (9) temporarily excessive production of flowers and fruit; (10) failure of minerals in the soil to go into solution, and (11) death of plants, if the condition of the soil becomes such that the plants reach the permanent wilting point.

As means of reducing the adverse effects of drought upon plants, Dr. Reisch suggested watering at regular intervals during drought periods, good cultural practices, mulching, application of fertilizers with a high nitrogen content and perhaps the use of antidesiccants to reduce the rate of transpiration.

Miticide Developments

"New or Promising Developments in Miticides for Shade Trees" was the title of a paper presented by C. C. Hamilton, New Jersey agricultural experiment station, New Brunswick, N. J., in which materials, time of application and results that could be expected were discussed.

Some of the newer materials, Dr. Hamilton said, are specific in control of mites, while others will destroy not only mites but also beetles, flies and other insects. The trend is increasing, he said, toward development of materials that will kill mites but not harm beneficial insects.

Dr. Hamilton grouped the materials he discussed according to time of application and pests controlled. Placing Kelthane, Dimite and chlorobenzilate in group 1, he said these materials have long residual action, are effective against mite nymphs and adults, generally should be applied about late spring or early summer when the infestations are beginning to appear and are relatively harmless to beneficial insects. These materials, he said, are compatible with most insecticides and are safe to use on most plants.

In group 2 he included Ovotran, mitox, Fenson and Genite 923, all of which should be applied early in the spring as a delayed dormant spray. He described these as having fair to good residual action; as being effective against mite eggs, nymphs and, in some cases, the adults also; as being harmless to true insects, and safe to use on most plants. He said Ovotran might cause some leaf burn on dogwood and that Fenson might injure roses. They are compatible, he said, with most insecticides and fungicides, but he warned that the manufacturer's directions should be followed in all cases.

Group 3 included malathion,

SPECIMEN MATERIAL

| | Each |
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| Ilex crenata hetzi 2½ to 3 ft. | \$4.50 |
| Ilex crenata rotundifolia 2½ to 3 ft. | 4.50 |
| Thuja compacta 18 to 24 ins. | 2.00 |
| 2 to 2½ ft. | 2.25 |
| Thuja, Siberian 2½ to 3 ft. | 3.00 |
| 3 to 3½ ft. | 3.25 |
| Juniperus glauca hetzi 2 to 2½ ft. | 3.00 |
| 2½ to 3 ft. | 3.50 |
| 3 to 4 ft. | 4.75 |
| Pieris japonica 18 to 24 ins. | 4.00 |
| 2 to 2½ ft. | 4.75 |
| Taxus capitata 2½ to 3 ft. | 6.50 |
| 3 to 3½ ft. | 7.50 |
| 3½ to 4 ft. | 9.00 |

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Guthion, Trithion and Ethion, which contain phosphates and are both miticidal and insecticidal in their action. They are effective against nymphs and adults, he said, but are not generally good as ovacides. They are compatible with most insecticides and fungicides and safe to use on most plant species.

Describes Planting Equipment

Fred C. Galle, of the Ida Cason Gardens, Chipley, Ga., presented a series of color slides showing equipment and tools used in planting and general maintenance of the area. Included in the list of slides were tree planters and large tree movers, soil shredders, an ingenious homemade hammer mill, machinery for irrigation of the nursery, soil sterilizing equipment, a blower for spreading mulch, sprayers, greenhouse facilities, several different types of grass mowers and many other pieces of power equipment.

In speaking of the use of herbicides, he remarked that all herbicidal materials were stored in a building entirely separate from those in which insecticides, fungicides, fertilizers and other materials were kept.

Delegates to the conference were brought up to date on work that is being done on foliar analysis in a paper on "The Determination of Nutrient Requirements of Trees by Foliar Analysis," presented by Dr. Thomas Cannon, department of horticulture, North Carolina State College, Raleigh. He stated that his paper was based largely on work performed at Ohio State University, which he attended under a fellowship sponsored by the National Shade Tree Conference memorial research fund committee.

Foliar analysis, he said, probably will not completely replace other methods of diagnosing nutritional deficiency symptoms, but it will permit correct diagnosis in the incipient stage of injury and allow work to be done at the right time to prevent damage from nutrient deficiencies.

Foliar analysis, Dr. Cannon said, complements soil analysis and visual observation of symptoms and conditions. When symptoms of nutrient deficiencies become easily visible, the plant may already have suffered such great injury that it cannot be treated successfully. He emphasized that, unlike most currently used methods of diagnosing nutrient deficiencies, foliar analysis is a measure of the nutrients taken up from the soil and is not dependent upon any other factors.

Dr. Cannon said his work on fol-

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* Where the age of the tree is preceded by an asterisk, the item may be grouped with others similarly marked in multiples of 10 to earn the 100 quantity price. Otherwise, 50 or more of an item are shipped at the 100 rate, 500 or more at the 1000 rate. The 2500 and 10,000 rates are net.

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| (2-2) 4 to 8 ins..... | 8.00 | 50.00 |
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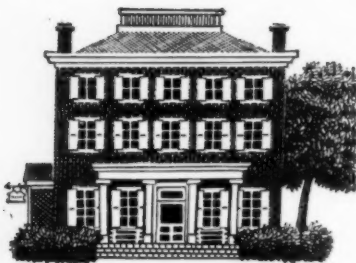
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iar analyses consisted of two phases, a study and survey of trees growing in natural conditions and work performed under rigid controls in the greenhouse. Leaf samples were collected from pin oak, hawthorn, honey locust and other trees during June, July, August and September, from different parts of the trees. The results of tests indicated that location of the leaves on the tree influenced their nutrient content and that, generally, the nitrogen content decreased as the season advanced, while calcium content increased.

In describing the work done in the greenhouse Dr. Cannon used a series of slides showing plants growing on benches, methods of controlled feeding and the effects on the foliage of various proportions of nutrients used in feeding.

The results obtained indicated that excessively increasing the amount of nitrogen in the soil might cause a reduction in the amount of phosphorus, manganese, iron and other elements in the leaf tissue. Nitrogen applied in the proper quantities resulted in better root growth, but when an excessive amount was applied the root growth decreased.

Much more work on foliar analysis is needed, Dr. Cannon asserted, suggesting that this would involve the establishment of standards of nutrient content for each species of tree during each month of the growing season.

Municipal Arboriculture

Of special interest to city foresters, park superintendents and others whose work involves city trees was the Tuesday morning session on municipal arboriculture. Three papers were presented in this session—"Planting Trees in Downtown and Business Districts," by Ross McIntire, superintendent of street trees, Los Angeles, Calif.; "Care and Maintenance of Street and Park Trees," by Lynn M. F. Harriss, Oakland park department, Oakland, Calif., and "The Use of Stump Cutters in Municipal Arboriculture," by John Michalko, division of shade trees, Cleveland, O.

In discussing the planting of trees in cities, Mr. McIntire said trees were valuable because they make conditions more pleasant for those who work and shop in the community; they have a sound and lasting economic value and a positive influence on the business enterprises of a city, and they are among the most enduring assets of any city.

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tract have planted 140 street trees costing from \$650 to \$1,025 each—a total investment of over \$100,000—and are protecting that investment by paying an average of \$60 per year per tree for maintenance.

Planting Continues

Additional planting is being done, Mr. McIntire said. One firm, in the construction of its new building bordering on the downtown business district, planted 49 trees in wells in the sidewalk area at a total cost of more than \$29,000, and three outlying business and shopping centers have started projects in which 310 trees, costing from \$35 to \$175 each, will be planted.

The speaker cited these facts as proof that Los Angeles businessmen realize the value of trees and briefly reviewed developments in the business life of the city which inspired the planting of trees as an economically sound business investment.

At the turn of the century, he said, Los Angeles began growing beyond the original boundaries, and many of the existing trees were removed. This resulted in the loss of attractive streets, and the change from street cars to motor buses left some 43 miles of abandoned right of way, 14 to 45 feet in width, throughout the city, largely on business streets. This strip was neglected and became overgrown with weeds. New shopping districts developed in outlying areas, and residents began shopping there rather than going downtown, as had been their practice. As a result, business in downtown Los Angeles declined.

Civic Committee Formed

In 1949 a "Los Angeles Beautiful" committee was established under the sponsorship of the Los Angeles chamber of commerce. In 1955, as a result of the activities of this committee, the Richfield Oil Co. pioneered the first downtown planting of 13 trees at a cost of about \$20,000. This gave impetus to further plantings and resulted in a capital improvement program being formed by the city for planting the abandoned street car right-of-way strips and other areas.

The present planting, Mr. McIntire stated, is the result of a planned program combining five factors deemed essential to success in the project. These are proper tree selection; proper spacing of trees; practical and economic installation; co-operation among city agencies, property owners and civic organizations, and good publicity. At the beginning of this program the "Los Angeles Beautiful" committee appointed a

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| <i>Berberis Crimson Pygmy</i> , 2¼-in. pots, | | | 2-yr., f.g., 8 to 12 ins. | 27.50 | 250.00 |
| 4 to 6 ins. | 25.00 | 225.00 | 4-yr., X, f.g., 12 to 15 ins. | 40.00 | 350.00 |
| <i>Berberis julianae</i> , 2-yr., 2¼-in. pots | 20.00 | 175.00 | <i>Juniperus pfitzeriana aurea</i> , | | |
| <i>Berberis sargentiana</i> , 2¼-in. pots | 17.50 | ..... | 2-yr., f.g., 8 to 12 ins. | 27.50 | 250.00 |
| <i>Cotoneaster divaricata</i> , 2-yr., XX, f.g., | | | <i>Juniperus pfitzeriana aurea</i> , | | |
| 12 to 15 ins. | 17.50 | 150.00 | 4-yr., X, f.g., 12 to 15 ins. | 40.00 | ..... |
| <i>Euonymus erectus</i> , 2-yr., XX, f.g., | | | <i>Juniperus pfitzeriana compacta</i> | | |
| 8 to 12 ins. | 17.50 | 150.00 | (Nick's Juniper), 1-yr, f.g., 6 to 8 ins. .. | 17.50 | 150.00 |
| <i>Euonymus japonicus</i> , 2-yr., XX, f.g., | | | <i>Juniperus pfitzeriana compacta</i> , | | |
| 8 to 12 ins. | 17.50 | ..... | 1-yr., f.g., 8 to 12 ins. | 20.00 | 175.00 |
| <i>Euonymus Newport</i> , big-leaved, 2¼-in. | | | <i>Juniperus sabina</i> , 1-yr., f.g., 6 to 12 ins. .. | 12.00 | 100.00 |
| pots | 15.00 | 125.00 | <i>Juniperus sabina</i> , 2-yr., X, f.g., 8 to 12 ins. | 15.00 | 120.00 |
| <i>Euonymus Newport</i> , big-leaved, 2-yr., XX, | | | <i>Juniperus sabina vonehron</i> , | | |
| f.g., 8 to 12 ins. | 20.00 | 175.00 | 1-yr., f.g., 6 to 12 ins. | 15.00 | 120.00 |
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| 2¼-in. pots | 15.00 | 125.00 | 2-yr., f.g., 12 to 15 ins. | 25.00 | |
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| 2-yr., XX, f.g., 8 to 12 ins. | 20.00 | 175.00 | 8 to 12 ins. | 27.50 | 250.00 |
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| 6 to 12 ins. | 17.50 | 150.00 | <i>Laurocerasus schipkaensis</i> , 2½-in. pots .. | 25.00 | |
| <i>Hypericum hidcote</i> , 2¼-in. pots | 15.00 | 120.00 | <i>Laurocerasus zabeliana</i> , 2½-in. pots | 25.00 | |
| <i>Ilex burfordii</i> , 2-yr., 2¼-in. pots | 17.50 | 150.00 | <i>Ligustrum lucidum</i> , 2-yr., XX, f.g., | | |
| <i>Ilex convexa</i> , 2-yr., 2¼-in. pots | 17.50 | 150.00 | 8 to 12 ins. | 17.50 | 150.00 |
| <i>Ilex cornuta</i> , 2¼-in. pots | 17.50 | 150.00 | <i>Ligustrum macrophyllum</i> , 2-yr., XX, f.g., | | |
| <i>Ilex fosteri</i> No. 2, 2¼-in. pots | 25.00 | | 8 to 12 ins. | 17.50 | 150.00 |
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| <i>Ilex helleri</i> , 2-yr., 2¼-in. pots | 17.50 | 150.00 | 8 to 12 ins. | 17.50 | 150.00 |
| <i>Ilex hetzi</i> , 2¼-in. pots | 17.50 | 150.00 | <i>Magnolia nigra</i> , 2½-in. pots | 30.00 | 250.00 |
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| 12 to 18 ins. | 20.00 | 175.00 | 8 to 12 ins. | 17.50 | 150.00 |
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| <i>Juniperus albovariegata</i> , 1-yr., f.g., | | | <i>Thuja (Biota) occidentalis globosa</i> , | | |
| 6 to 12 ins. | 15.00 | | 2¼-in. pots | 15.00 | |
| <i>Juniperus ashfordi</i> , 1-yr., f.g., 8 to 12 ins.. | 15.00 | 120.00 | <i>Thuja occidentalis nigra</i> , 2¼-in. pots | 17.50 | 150.00 |
| <i>Juniperus ashfordi</i> , 2-yr., f.g., 12 to 18 ins. | 20.00 | 175.00 | <i>Thuja occidentalis pyramidalis</i> , 2¼-in. pots | 17.50 | 150.00 |
| <i>Juniperus conferta</i> , 1-yr., f.g., 8 to 12 ins. | 15.00 | 120.00 | <i>Thuja occidentalis woodwardi</i> , 2¼-in. pots | 17.50 | 150.00 |
| <i>Juniperus excelsa stricta</i> , 1-yr., f.g., 6 to | | | <i>Thuja orientalis aurea nana</i> , 2¼-in. pots .. | 20.00 | 175.00 |
| 12 ins. | 15.00 | 120.00 | <i>Thuja orientalis bakeri</i> , 2¼-in. pots | 20.00 | 175.00 |
| <i>Juniperus fastigiata</i> , 1-yr., f.g., 6 to 12 ins.. | 15.00 | 120.00 | <i>Thuja orientalis bakeri</i> , 2-yr., XX, | | |
| <i>Juniperus fastigiata</i> , 2-yr., f.g., 12 to 18 ins. | 20.00 | 175.00 | f.g., 8 to 12 ins. | 25.00 | 225.00 |
| <i>Juniperus hetzi</i> , | | | <i>Thuja orientalis bonita</i> , 2¼-in. pots | 20.00 | 175.00 |
| 1-yr., f.g., 6 to 12 ins. | 12.00 | 100.00 | <i>Thuja orientalis bonita</i> , 2-yr., XX, | | |
| 2-yr., f.g., 8 to 12 ins. | 17.50 | 150.00 | f.g., 6 to 12 ins. | 25.00 | 225.00 |
| 3-yr., X, f.g., 12 to 18 ins. | 40.00 | 350.00 | <i>Thuja orientalis fruitlandi</i> , 2¼-in. pots ... | 20.00 | 175.00 |
| <i>Juniperus hibernica</i> , | | | <i>Thuja orientalis fruitlandi</i> , 2-yr., XX, | | |
| 1-yr., f.g., 6 to 12 ins. | 12.00 | 100.00 | f.g., 6 to 12 ins. | 25.00 | 225.00 |
| <i>Juniperus hibernica</i> , | | | <i>Thuja orientalis newarkii</i> , 2¼-in. pots | 20.00 | 175.00 |
| 2-yr., f.g., 12 to 18 ins. | 20.00 | 175.00 | <i>Viburnum burkwoodii</i> , 2-yr., 2¼-in. pots .. | 17.50 | 150.00 |
| <i>Juniperus horizontalis plumosa</i> (Andorra), | | | <i>Viburnum burkwoodii</i> , 3-yr., XX, f.g., | | |
| 1-yr., f.g., 6 to 12 ins. | 12.00 | 100.00 | 12 to 18 ins. | 27.50 | 250.00 |
| <i>Juniperus horizontalis plumosa</i> (Andorra), | | | <i>Viburnum grandiflorum</i> , 2½-in. pots | 15.00 | |
| 2-yr., X, f.g., 8 to 12 ins. | 15.00 | 120.00 | | | |

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|--|----------|----------|
| American Arborvitae, sheared, 5-yr. transplants, (2-3), 8 to 12 in. | Per 1000 | \$ 75.00 |
| Scotch Pine, 3-yr. transplants, (2-1), 3 to 6 in. | | 70.00 |
| White Pine, 4-yr. transplants, (2-2), 4 to 8 in. | | 70.00 |
| Black Hills Spruce, 5-yr. transplants, (2-3), 5 to 10 in. | | 85.00 |
| Colorado Blue Spruce, 5-yr. transplants, (2-3), 6 to 12 in. | | 150.00 |
| Engelmann Blue Spruce, 4-yr. transplants, (2-2), 4 to 8 in. | | 75.00 |
| Norway Spruce, 4-yr. transplants, (2-2), 4 to 8 in. | | 70.00 |

SEEDLINGS

(not guaranteed)

| | |
|---|-------|
| Douglas Fir, 4-yr. seedlings (4-0), 6 to 12 ins. | 40.00 |
| Douglas Fir, 3-yr. seedlings (3-0), 3 to 6 in. | 35.00 |
| Japanese Black Pine, 2-yr. seedlings (2-0), 2 to 4 in. | 30.00 |
| Mugho Pine, 4-yr. seedlings (4-0), 5 to 10 in. | 35.00 |
| Black Hill Spruce, 4-yr. seedlings (4-0), 4 to 8 in. | 35.00 |
| Black Hill Spruce, 3-yr. seedlings (3-0), 3 to 6 in. | 30.00 |
| Colorado Blue Spruce, 3-yr. seedlings (3-0), 5 to 10 in. | 40.00 |
| Engelmann Blue Spruce, 3-yr. seedlings (3-0), 3 to 6 in. | 30.00 |
| Norway Spruce, 3-yr. seedlings (3-0), 3 to 6 in. | 30.00 |
| White Spruce, 3-yr. seedlings (3-0), 5 to 10 in. | 35.00 |

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| | |
|--------------------|--------|
| 18 to 24 ins. | \$3.00 |
| 24 to 30 ins. | 3.75 |
| 30 to 36 ins. | 5.50 |
| 3 to 3½ ft. | 6.50 |

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AT REASONABLE PRICES

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Per 100 Per 1000

| | | |
|----------------------------------|---------|---------|
| Red-leaved Barberry | | |
| 2-yr., S., 9 to 12 ins. .. | \$ 6.50 | \$50.00 |
| 2-yr., S., 12 to 18 ins. .. | 10.00 | 75.00 |
| Row run, 9 to 18 ins. .. | 7.50 | 60.00 |
| Cornus florida (White Dogwood) | | |
| 1-yr., S., budding size. .. | 6.00 | 50.00 |
| 1-yr., S., below budding size .. | 4.50 | 35.00 |

Ask for list.

BROUWER'S NURSERIES

Box 25

New London, Conn.

subcommittee to study selection of tree species suitable for planting.

Selection was based on hardiness and resistance to gases and air pollutants; upright growth habit; ready response to the pruning necessary for maintenance in confined spaces and for traffic clearance; ability to thrive in shade or in the heat reflected from buildings, and ability to create a pleasing, restful atmosphere over the greatest possible length of time with a minimum of maintenance. Using these specifications as a guide, the committee finally decided upon *Ficus retusa*, or *Ficus nitida*, for use in the downtown area.

Flexible Spacing Used

Through field surveys, Mr. McIntire recounted, it was determined that tree spacing should be somewhat flexible. In some areas, spacing of 40 to 60 feet was recommended, while in others, to frame an entrance or lend emphasis to some outstanding feature of a building, the distance between trees might be only 25 to 30 feet. Problems of planting due to underground utility lines were solved through extended search of old maps and the development of an over-all plan showing the location of underground facilities.

The traffic channelization islands and the old street car right of way areas were planted with turf grasses and small trees. The entire planting program has been given good newspaper, radio and television publicity. Mr. McIntire said, which has contributed greatly to its success.

In speaking of the care and maintenance of city trees, Mr. Harris stressed the need for adequate planning. He said the maintenance program should include legislative planning; policy planning; physical planning; operational planning; a public relations program, and a safety program, including the maintenance, retirement and procurement of tools, equipment and vehicles.

Legislative planning should include, he said, the development and passage of a street tree ordinance specifying responsibility for care and removal of trees that border streets and walks, with restrictions on pruning, planting and removal or mutilation by the public. The ordinance should specify the action required by public utility companies, contractors and similar organizations when their construction or repair activities involve trees.

The policy plan, he said, should specify application of the powers expressed in the ordinance—how to plant; who is to do the planting; who

FALL, 1958, PRICE LIST

Seedlings

| | |
|--|---------------|
| Abies lasiocarpa, 100 | 1000 |
| 2-yr. S., 3 to 4 ins. | \$ 8.50 |
| Acer rubrum, 100 | 1000 |
| 2-yr. S., 10 to 15 ins. | 5.00 \$ 45.00 |
| Berberis thunbergii atropurpurea, 1-yr. S., 4 to 8 ins. (Special Permit) | 4.50 40.00 |
| Cornus mas, 1-yr. S., 6 to 8 ins. | 7.50 |
| Crataegus (cordata) phaeopyrum, 1-yr. S., 8 to 12 ins. and up | 7.50 60.00 |
| Crataegus (cordata) phaeopyrum, 2-yr. S., 18 to 24 ins. and up | 10.00 75.00 |
| Hebeborus niger, 3-yr. T. | 45.00 |
| Koeleruteria paniculata, 1-yr. S., 6 to 8 ins. | 8.00 |
| Liquidambar styraciflua, 1-yr. S., 4 to 8 ins. | 9.60 75.00 |
| Liquidambar styraciflua, 2-yr. S., 12 to 18 ins. | 15.00 100.00 |
| Magnolia virginiana (glauca), 1-yr. S., 3 to 6 ins. | 7.00 |
| Mahonia repens, 2-yr. S., 4 to 8 ins. | 7.50 |
| Myrica pennsylvanica, 1-yr. S., 3 to 6 ins. | 5.00 40.00 |
| Picea abies (excelsa), 2-yr. S., 4 to 8 ins. | 5.00 40.00 |
| Picea engelmannii, 2-yr. S., 3 to 4 ins. | 6.00 |
| 2-yr. S., 3 to 6 ins. | 5.00 40.00 |
| Picea pungens glauca, 3-yr. T. | 17.50 150.00 |
| Pinus flexilis, 2-yr. S., 2 to 4 ins. | 5.00 40.00 |
| Pinus flexilis, 3-yr. S., 3 to 5 ins. | 6.50 |
| Pinus mughus (True Dwarf Tyrolean), 2-yr. S., 3 to 4 ins. | 5.00 40.00 |
| Pinus mughus pumilio, 1-yr. S., 2 to 4 ins. | 5.00 40.00 |
| Pinus nigra, 2-yr. S., 4 to 8 ins. | 4.50 40.00 |
| Pinus nigra, 3-yr. S., 8 to 12 ins. | 6.00 50.00 |
| Pinus strobus, 2-yr. S., 4 to 6 ins. | 5.00 40.00 |
| Pinus sylvestris, 2-yr. S., 6 to 10 ins. | 4.50 40.00 |
| Pinus thunbergii, 2-yr. S., 4 to 8 ins. | 6.00 50.00 |
| Pseudotsuga taxifolia glauca, 2-yr. S., 4 to 8 ins. | 6.00 50.00 |
| Quercus borealis, 1-yr. S., 6 to 8 ins. | 6.00 30.00 |
| Quercus borealis, 1-yr. S., 8 to 12 ins. | 7.50 60.00 |
| Quercus coccinea, 1-yr. S., 4 to 8 ins. | 10.00 75.00 |
| Quercus palustris, 1-yr. S., 6 to 8 ins. | 6.00 50.00 |
| Quercus palustris, 1-yr. S., 8 to 12 ins. | 7.50 60.00 |
| Sophora japonica, 1-yr. S., 6 to 8 ins. | 10.00 |
| Sorbus aucuparia, 2-yr. T., 18 to 24 ins. and up | 25.00 200.00 |
| Syringa vulgaris, 1-yr. S., 6 to 8 ins. | 3.50 30.00 |
| Syringa vulgaris, 2-yr. S., 12 to 18 ins. | 9.00 80.00 |
| Taxus capitata, 3-yr. S., 4 to 8 ins. | 15.00 125.00 |
| Taxus capitata, 4-yr. T., 6 to 10 ins. | 35.00 300.00 |
| Thuja occidentalis, 3-yr. T. | 10.00 85.00 |
| Thuja orientalis, 2-yr. T., transplanted understock | 8.50 75.00 |
| Tsuga canadensis, T., 4 to 8 ins. | 15.00 125.00 |
| Tsuga canadensis, T., 6 to 10 ins. | 20.00 175.00 |

Seedlings, Cont'd

| | |
|--|------------------|
| Tsuga caroliniana, 2-yr. S., 3 to 6 ins. | \$10.00 \$ 75.00 |
| Viburnum carlesii, 2-yr. S., 6 to 12 ins. | 20.00 |
| Viburnum dentatum, 1-yr. S., 6 to 8 ins. | 10.00 70.00 |
| Viburnum wrightii, 1-yr. S., 6 to 8 ins. | 10.00 70.00 |

Bedded Stock 2-Year Transplants

| | |
|--|-------|
| Azalea calendulacea, 10 to 25 | 100 |
| Azalea mucronulatum, 3.00 | 25.00 |
| Azalea schlippenbachii, 3.00 | 25.00 |
| Ilex crenata convexa, 4.25 | 35.00 |
| Ilex crenata rotundifolia, 4.25 | 35.00 |
| Ligustrum Dwarf, 2.50 | 20.00 |
| Wintergreen, 3.50 | 30.00 |
| Rhododendron hybridum, red, 3.50 | 30.00 |
| Rhododendron smirnowi x Hardy Hybrid, 3.50 | 30.00 |
| Taxus cuspidata densiformis, 4.75 | 40.00 |
| Taxus cuspidata F & F compacta, 4.75 | 40.00 |
| Taxus media browni, 4.75 | 40.00 |
| Taxus media Halloran, 4.75 | 40.00 |
| Taxus media Hicksi, 4.75 | 40.00 |
| Taxus media Moon's columnaris, 4.75 | 40.00 |
| Taxus media wardi, 4.75 | 40.00 |

Well-Established Cuttings from 2 1/4-in. Pots

| | |
|--|-------|
| Azalea palustris, 10 to 25 | 100 |
| Azalea Sherwood, red, 3.00 | 20.00 |
| Berberis Julianae, 3.50 | 25.00 |
| Berberis thunbergii atropurpurea, 3.50 | 25.00 |
| Berberis triacanthophora, 3.50 | 25.00 |
| Berberis verruculosa, 3.50 | 25.00 |
| Buxus handsworthii, 3.00 | 20.00 |
| Buxus koreana, 3.00 | 20.00 |
| Buxus sempervirens, 3.00 | 20.00 |
| Chamaecyparis Cyano Viridis, 3.00 | 20.00 |
| Chamaecyparis plumosa aurea, 3.00 | 20.00 |
| Chamaecyparis plumosa sulphurea, 3.00 | 20.00 |
| Cotoneaster adpressa praecox, 3.00 | 20.00 |
| Cotoneaster conspicua, 3.00 | 20.00 |
| Cotoneaster horizontalis, 3.00 | 20.00 |
| Cotoneaster horizontalis perpusilla, 3.00 | 20.00 |
| Euonymus alatus compactus, 3.00 | 20.00 |
| Euonymus carrierei, 3.00 | 20.00 |
| Euonymus japonicus, 3.00 | 20.00 |
| Euonymus patens, 3.00 | 20.00 |
| Euonymus vegetus, 3.00 | 20.00 |
| Ilex aquifolium Clifton Major, 5.00 | 40.00 |
| Ilex cornuta burfordii, 4.00 | 30.00 |
| Ilex crenata convexa, 3.00 | 20.00 |
| Ilex crenata helleri, 3.00 | 20.00 |
| Ilex crenata microphylla, 3.00 | 20.00 |
| Ilex crenata rotundifolia, 3.00 | 20.00 |
| Ilex glabra, 3.00 | 20.00 |
| Ilex opaca (4 to 6 ins. in the following named varieties, 5.00 | 40.00 |
| Arden, 5.00 | 40.00 |
| Hookstraw, 5.00 | 40.00 |
| Cherry, 5.00 | 40.00 |
| Christmas Tide, 5.00 | 40.00 |
| Clark, 5.00 | 40.00 |
| Della Bradley, 5.00 | 40.00 |
| Farage, 5.00 | 40.00 |
| Femina No. 16, 5.00 | 40.00 |
| Hedge Holly, 6.00 | 50.00 |
| Ilex opaca Arden, fruited, 5.00 | 40.00 |
| Ilex opaca mascula, 5.00 | 40.00 |
| Ilex opaca mascula Brown No. 9, 5.00 | 40.00 |
| Juniperus depressa plumosa, 3.00 | 20.00 |

1-Year Grafts from 2 1/4-in. Pots

| | |
|---|-------|
| Acer palmatum atropurpureum Bloodgood, 10 to 25 | 100 |
| Acer saccharum monumentale, 10.00 | 90.00 |
| Cornus florida pendula, 8.50 | 75.00 |
| Cornus florida rubra, 7.50 | 65.00 |
| Cornus florida rubra Prosser, 8.50 | 75.00 |
| Cornus kousa chinensis, 7.50 | 65.00 |
| Fagus sylvatica asplenifolia, 8.50 | 75.00 |
| Fagus sylvatica fastigiata, 8.50 | 75.00 |
| Fagus sylvatica heterophylla, 7.50 | 65.00 |
| Fagus sylvatica riversi, 9.00 | 80.00 |
| Fagus sylvatica Tricolor, 9.00 | 80.00 |
| Hamamelis mollis, 7.50 | 65.00 |
| Ilex opaca Cheerful, 8.50 | 75.00 |
| Ilex opaca Hookstraw, 8.50 | 75.00 |
| Juniperus scopulorum Blue Haven, 7.50 | 65.00 |
| Magnolia conspicua, 10.00 | 90.00 |
| Magnolia cordata, 9.00 | 80.00 |
| Magnolia rustica rubra, 8.50 | 75.00 |
| Magnolia sieboldi parviflora, 8.50 | 75.00 |
| Magnolia soulangeana, 8.50 | 75.00 |
| Magnolia soulangeana lenei, 8.50 | 75.00 |
| Magnolia soulangeana nigra, 8.50 | 75.00 |
| Parrotia persica, 7.50 | 65.00 |
| Pinus cembra, 8.00 | 70.00 |
| Pinus sylvestris watereri glauca, 8.00 | 70.00 |
| Tsuga canadensis sargentii pendula, 7.50 | 65.00 |

| | |
|--|---------|
| Juniperus horizontalis Bar Harbor, 10 to 25 | 100 |
| Juniperus horizontalis wilsoni glauca, 83.00 | \$20.00 |
| Juniperus pfitzeriana, 3.00 | 20.00 |
| Juniperus pfitzeriana compacta, 3.00 | 22.50 |
| Juniperus pfitzeriana nana, 3.00 | 22.50 |
| Juniperus glauca hetzi, 3.00 | 22.50 |
| Mahonia bealei, 3.00 | 22.50 |
| Oxydendrum arboreum, 3.00 | 22.50 |
| Pieris floribunda, 3.00 | 20.00 |
| Pieris japonica, 3.00 | 20.00 |
| Prunus laurocerasus schipkaensis, 3.50 | 30.00 |
| Pyracantha coccinea islandi, 3.00 | 20.00 |
| Pyracantha coccinea, red, 3.00 | 20.00 |
| Pyracantha wyattii, 3.00 | 20.00 |
| Rhododendron wilsoni, 3.00 | 40.00 |
| Sarcococca hookeriana humilis, 3.00 | 20.00 |
| Taxus baccata repandens, 3.50 | 25.00 |
| Taxus cuspidata, 3.50 | 25.00 |
| Taxus cuspidata aurea, 3.50 | 25.00 |
| Taxus cuspidata capitata, 3.50 | 25.00 |
| Taxus cuspidata compacta, 3.50 | 25.00 |
| Taxus cuspidata densiformis, 3.50 | 25.00 |
| Taxus cuspidata F & F compacta, 3.50 | 25.00 |
| Taxus cuspidata nana, 3.50 | 25.00 |
| Taxus media browni, 3.50 | 25.00 |
| Taxus media cliftoni, 3.50 | 25.00 |
| Taxus media Halloran, 3.50 | 25.00 |
| Taxus media hatfieldi, 3.50 | 25.00 |
| Taxus media henryi, 3.50 | 25.00 |
| Taxus media hicksi, 3.50 | 25.00 |
| Taxus media Moon's columnaris, 3.50 | 25.00 |
| Taxus media Vermeulen, 3.50 | 25.00 |
| Taxus media wardi, 3.50 | 25.00 |
| Thuja occidentalis globosa, 3.00 | 20.00 |
| Thuja occidentalis globosa novum, 3.00 | 20.00 |
| Viburnum bithuense, 3.50 | 25.00 |
| Viburnum fragrans, 3.50 | 25.00 |

HESS' NURSERIES

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pays for the trees; who is responsible for their maintenance, and other details of procedure leading to an overall planned planting of selected trees for selected areas.

Physical planning, Mr. Harriss said, should include a comprehensive survey of existing street trees to determine their age, condition, species, width of planting strip, and other facts needed to prepare a master street plan. Such a plan must be flexible, and all records pertaining to the trees must be kept up to date, in-

cluding removals as well as new plantings.

Operational planning should include organizing work crews, specifying duties and establishing a code of operating procedure and job priorities. Stating that old, worn-out tools and equipment usually constitute a hazard to the workmen who use them and often to the public as well, Mr. Harriss advocated regular inspections of all equipment, a program of repair and maintenance as long as the general condition of the

piece of equipment justified such expense and a schedule of replacement when such equipment became obsolete.

A well-planned safety program, he said, should be followed to prevent the occurrence of accidents through carelessness and ignorance on the part of the workmen. The need for good public relations, he said, should be impressed upon all workmen within the organization.

In his discussion of the use of stump cutters in city work, Mr.

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cal. 135.00 1250.00Varieties — Baldwin, Cortland,
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Red McIntosh, Northern Spy.**RED BARBERRY**3 and 4-yr. transplants.
24 to 30 ins... 60.00 550.00
18 to 24 ins... 50.00 450.00
12 to 18 ins... 40.00 350.00**PURPLE LILAC**Per 100 Per 1000
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2 to 3 ft. 60.00 500.00

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Straight, well-branched
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8 to 10 ft., br. 40.00 375.00

6 to 8 ft., br. 30.00 275.00

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IS HARDY...****FINER LINERS**Finest Varieties—Finest Quality
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Neshanic Station, N. J.

Michalko briefly reviewed the older methods of stump removal—blasting, hand digging and chopping with axes—and compared these with stump-cutting machines in terms of ease of operation and cost.

With the newer stump cutters, he said, stumps may be removed to a depth of 10 inches. No damage results to sidewalks; no holes in the parkway remain to be filled; the machine eliminates the necessity of hauling a heavy, unwieldy stump to the dump; the operation is rapid, and the machines require little maintenance.

Conference delegates were given a glimpse of colonial Williamsburg in a series of excellent slides, by Alden R. Eaton, landscape superintendent, Colonial Williamsburg, Inc., Williamsburg, Va., in his discussion of "The Best in Trees and Shrubs for the Southeast." His slides showed trees and shrubs in effective landscape uses, including hedges, topiary and espalier plants, screen plantings and landscape specimens.

He discussed the uses of more than 50 large, medium and small trees and shrubs. For use as street trees in a narrow planting strip he suggested ginkgo, London plane tree, American sycamore, water oak, willow oak, little-leaved linden, shad-blow, American hornbeam, golden-rain tree and black haw. In wider planting areas, he said, such species as hackberry, American beech, tulip tree, southern magnolia, loblolly pine, Virginia live oak and others might be used with good effect.

Fire Blight Control

"Fire Blight—Its Nature and Control" was discussed by Forrest C. Strong, department of botany and plant pathology, Michigan State University, East Lansing. Briefly tracing the history of fire blight, he said it was one of the oldest known diseases of apples, pears and several other species of trees and shrubs.

Fire blight is caused by a bacterium known as *Erwinia amylovora*. The leaves near the tip ends of twigs and the flowers of affected plants wilt, turn brown to black and appear as though scorched by fire, he said. Infection occurs in the blossom and spreads downward, causing oozing cankers on the branches and trunk.

Any living canker is a threat to surrounding susceptible host plants, such as apple, pear, certain species of cotoneaster and hawthorns, mountain ash, fire thorn, serviceberry, flowering quince, flowering plum and others.

The bacteria are carried and the

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|---------------------------------|---------|----------|
| 6 to 8 ft. | \$16.50 | \$150.00 |
| 8 to 10 ft. | 22.50 | 200.00 |
| 1 1/4 to 1 1/2-in. cal. | 27.50 | 250.00 |
| ELM, American White | | |
| 5 to 6 ft. | 8.00 | 75.00 |
| 6 to 8 ft. | 11.00 | 100.00 |
| 8 to 10 ft. | 16.50 | 150.00 |
| 1 1/4 to 1 1/2-in. cal. | 24.00 | 225.00 |
| 1 1/2 to 2-in. cal. | 32.50 | 300.00 |
| 2 to 2 1/2-in. cal. | 47.50 | 450.00 |
| ELM, Chinese | | |
| 5 to 6 ft. | 6.50 | 60.00 |
| 6 to 8 ft. | 10.00 | 90.00 |
| 8 to 10 ft. | 14.00 | 125.00 |
| 1 1/2 to 2-in. cal. | 22.50 | 200.00 |
| ELM, Moline | | |
| 6 to 8 ft. | 17.50 | 150.00 |
| 8 to 10 ft. | 22.50 | 200.00 |
| 1 1/4 to 1 1/2-in. cal. | 30.00 | 275.00 |
| LOCUST, Thornless Honey | | |
| 6 to 8 ft. | 22.50 | 200.00 |
| 8 to 10 ft. | 32.50 | 300.00 |
| 1 1/4 to 1 1/2-in. cal. | 37.50 | 350.00 |
| MAPLE, Soft or Silver | | |
| 6 to 8 ft. | 15.00 | 130.00 |
| 8 to 10 ft. | 21.00 | 190.00 |
| 1 1/4 to 1 1/2-in. cal. | 25.00 | 225.00 |
| MAPLE, Wier's Cut-leaved | | |
| 5 to 6 ft. | 15.00 | 140.00 |
| 6 to 8 ft. | 20.00 | 175.00 |
| POPLAR, bolleana | | |
| 5 to 6 ft. | 12.50 | 90.00 |
| 6 to 8 ft. | 15.00 | 120.00 |

| POPLAR, Lombardy (Low-Branched) | Per 10 | Per 100 |
|--|---------|----------|
| 5 to 6 ft. | \$ 4.00 | \$ 35.00 |
| 6 to 8 ft. | 5.50 | 50.00 |
| 8 to 10 ft. | 6.50 | 60.00 |
| POPLAR, richardi (Golden-leaved) | | |
| 4 to 5 ft. | 12.50 | 100.00 |
| 5 to 6 ft. | 17.50 | 150.00 |
| 6 to 8 ft. | 22.50 | 200.00 |
| POPLAR, Silver-leaved | | |
| 6 to 8 ft. | 14.00 | 125.00 |
| 8 to 10 ft. | 17.50 | 150.00 |
| 1 1/2 to 2-in. cal. | 22.50 | 200.00 |
| SYCAMORE, American | | |
| 6 to 8 ft. | 20.00 | 175.00 |
| 8 to 10 ft. | 30.00 | 250.00 |
| THORN, mollis, bare-root | | |
| 3 to 4 ft. | 20.00 | 175.00 |
| 4 to 5 ft. | 25.00 | 225.00 |
| THORN, punctata, bare-root | | |
| 4 to 5 ft. | 25.00 | 225.00 |
| 5 to 6 ft. | 30.00 | 275.00 |
| WILLOW, Niobe Weeping (Golden) | | |
| 5 to 6 ft. | 8.50 | 80.00 |
| 6 to 8 ft. | 12.50 | 110.00 |
| 8 to 10 ft. | 16.50 | 150.00 |
| 1 1/2 to 2-in. cal. | 25.00 | 225.00 |
| 2 to 2 1/2-in. cal. | 30.00 | 275.00 |
| WILLOW, Wisconsin Weeping (Green) | | |
| 5 to 6 ft. | 8.50 | 80.00 |
| 6 to 8 ft. | 12.50 | 110.00 |
| 8 to 10 ft. | 17.50 | 150.00 |

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disease is spread by bees, aphids, the tarnished plant bug and other insects and birds, Professor Strong said. He warned that tools used in pruning a plant infected with fire blight should be disinfected after each cut to prevent spread of the disease by that means. Wood removed in pruning should be burned.

The dormant season is best for trimming out cankered areas on the branches and trunk. Cobalt nitrate or cadmium sulfate diluted with other materials may be used in chemical treatment of cankers caused by the disease.

To prevent infection through the flowers, one should spray at blossoming time with Bordeaux mixture, Zineb or one of the newer antibiotic materials such as streptomycin, Agri-

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We received a book from the government entitled "Agricultural Situation, August, 1958, Vol. 42, No. 8" which had on page 11 an article headed "Nursery Product Sales Show Large Gains." I thought that I had better read this over so I could be informed as well as the next nurseryman who might walk into our office and believe me there were some things in that article that sound incredible. One of the things that kind of bugged my eyes out was the fact that in the 10 states that were selected there were 41 million rose plants sold with a wholesale value of 13.2 million dollars. Well now, in the first place we only have a couple of hundred thousand roses and 41 million sounds like an awful lot of work for someone to take care of, but later when I started doing a little division, I found out that at that rate those roses must have sold for an average of a little over 31 cents apiece. Since we sell our roses for considerably more than this amount and our average went into those figures too, someone must be selling roses pretty cheap somewhere if the figures are correct. Of course, we take a lot of pains to see that the product we sell is worth what we charge for it and that it gets into our customers' hands in the finest possible condition and we never dig till we have had a good killing frost to ripen the roses naturally and maybe we put more into it but we figure that there are still a lot of nurserymen around who want the finest-quality roses.

If you want to buy your roses for 31 cents apiece then don't send for our catalog because we sure don't have any that cheap but if you are one of the guys that still believe that there is a market for quality plants we would be glad to send you a list. In about 30 days we will be digging roses and we would be able to ship about November 10 or any time after that till spring.

If the above comments have interested you, please let me know and watch the next issue of this magazine as I intend to tell you about some interesting facts found in this report.

PAUL R. BOSLEY,
THE BOSLEY NURSERY,
MENTOR, OHIO.

mycin, Agri-strep or Phyto-mycin. Several spray applications during the blossoming period at intervals of four to six days, Professor Strong said, are needed to provide protection against infection.

Pruning Fundamentals

A definition of pruning—the methodical removal of parts of a plant with the object of improving it in some respect for the purpose of the cultivator—was given by Henry P. Orr, department of horticulture, Alabama Polytechnic Institute, Auburn, at the opening of his discussion of "Fundamentals of Pruning." He said emphasis should be placed on the earliness with which this methodical removal should begin. Pruning and establishing the strong framework of the plant should begin in the nursery. This framework should be kept functional for safety, health and eye-appeal through the years by periodic, methodical but scientific removal of detrimental parts.

Proper pruning of any tree, he stressed, involves the selection and removal of branches detrimental to the tree or to its appearance, in such manner that injury is minimized and resulting wounds are left in a condition favorable for rapid healing. In order to do this, the operator must be thoroughly familiar with the growth habits of the tree species involved. Knowledge of differences in the growth habits of different species of trees from early life to maturity, Professor Orr said, is the first fundamental of pruning.

The operator should also be familiar with the anatomy and physiology of the tree. He should have knowledge of the location and function of such parts as the heartwood, sapwood and cambium, and prune in such manner that there is no interruption in the functioning of these parts.

Pruning at Planting

Pruning at planting time should include removal of broken or damaged roots, shortening of unduly long lateral or taproots and cutting back the top to some extent to compensate for loss of roots in digging. Generally, the leader in the crown should not be pruned back, but an effort should be made to space branches to avoid the development of narrow crotches.

Cuts should be made at a crotch or flush against the trunk. Damaged and dead wood, Professor Orr said, should be removed, since it may become a harboring place for disease and insects, may be dangerous to life and property and detracts from



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the beauty of the tree. In removal of living branches, he said, the natural, characteristic shape of the tree should be maintained.

Reasons for Pruning

Pruning should be done to remove limbs that destroy symmetry or to direct the energies of the more vigorous parts into the weaker portions of the crown. He warned against too severe pruning and pointed out that excessive growth of water sprouts usually is an indication of too drastic pruning.

Pruning to remove low-hanging branches that impede pedestrian or vehicular traffic and those that interfere with overhead utility lines may be necessary, Professor Orr said, but even in such work the pruning should be done in such manner that the tree will remain a thing of beauty.

Severe and often unsightly pruning of trees near walks, streets and overhead lines usually can be avoided through more careful selection of species at the time of planting. In pruning for line clearance, branches often may be trained to grow away from the wires and a smaller but esthetic version of the natural larger habit of the tree may be maintained.

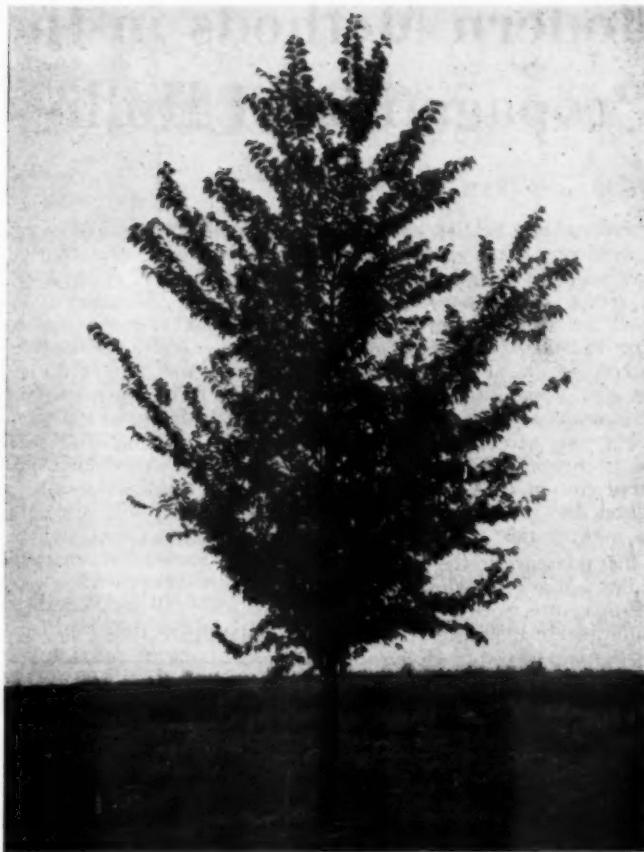
Recommends Early Spring Work

Professor Orr suggested early spring, while the tree is still dormant, as the best time to prune deciduous tree species. He enumerated the advantages gained in spring pruning as follows: The wounds heal quickly; the framework of the tree can be observed and evaluated more easily, and the weather is warm enough to prevent cracking and breaking of wood fibers and is conducive to the comfort of the operator, which leads to more careful selection of branches to be removed. Evergreens, he said, should be pruned in the spring before new growth starts; the new growth that develops later will quickly cover the pruning scars.

In closing, Professor Orr listed the following principles of pruning:

- (1) Of closely competing branches, the one cut the most grows the least.
- (2) Usually the shoot from the bud nearest the point of cutting tends to outgrow those from the buds below it.
- (3) When the yearly growths of most varieties are headed back, there is a strong tendency toward more profuse branching than when no heading is done.

(Educational sessions held the last day of the conference, dealing with public utility arboriculture and the nature and control of chlorosis, will be reported in a later issue of the American Nurseryman.)



Christine Buisman Elm

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Modern Methods in the Propagation of Hollies

By James S. Wells

The propagation of ilex, as well as propagation of many other plants, has undergone a quiet revolution during recent years, with methods employed by the average grower changing radically. It is now generally accepted that the propagation of most species and varieties of ilex is best accomplished by rooting cuttings, but the acceptance of this method is comparatively recent. In 1946 most growers were maintaining production by grafting, and they still do in England.

The first reference to the propagation of ilex in the Proceedings of the Plant Propagators Society was a review published in 1952, titled "Vegetative Propagation of Holly by Grafting," by H. Gleason Mattoon. F. W. Burbidge, in 1877, stated that the propagation of both *Ilex opaca* and *Ilex aquifolium* from cuttings is comparatively easy. This fact has been elaborated and substantiated by later work, yet two excellent books on propagation, one published in England in 1948 and one in this country in 1957, make no reference to the rooting of ilex cuttings.

Following, in condensed form, are the methods which I believe experiment and experience have shown to be successful.

Timing

Timing used to be considered a critical matter, but this is no longer true. Growers at Boskoop, Holland, report excellent rooting in June; L. C. Chadwick, Ohio State University, Columbus, reports equally good rooting in November; Roger Coggeshall, Arnold Arboretum, Jamaica Plain, Mass., was successful in January, and I have made cuttings from late June until late February. If care is taken in the selection of the wood, rooting usually follows without difficulty. To some extent the use of old wood at the base of the cutting can overcome the broad limitations of timing. For instance, shoots which may be completing a surge of active growth would not be considered fit to use as a cutting. Yet such shoots,

if taken with a small piece of older wood at the base, can often be handled successfully.

A heavy wound, made as the cuttings are taken, consists of a strip one to one and a half inches long sliced from the base of the stem to reveal the firm center woody tissue. Stuart and Marth, in 1937, reported two studies in which two such cuts were made on either side of the cuttings with excellent results. Roger Coggeshall used only one cut in his holly propagation tests, and this produced a vigorous but obviously one-sided root development.

Practically all individuals reporting work on ilex state that treatment

with indolebutyric acid produces superior results. Although it must be admitted that many varieties of holly can be successfully rooted without treatment, it is well worth while to treat all cuttings in normal nursery production.

I treat most varieties of *Ilex aquifolium* (English holly) with Hormodin No. 3 powder, which contains indolebutyric acid at eight milligrams to the gram in talc. The same strength is used for large cuttings of all *Ilex crenata*, Japanese holly, and types, and also for *Ilex cornuta*, Chinese holly. Hormodin No. 2, containing four milligrams of indolebutyric acid per gram of talc, is used for small cuttings of *Ilex crenata*.

Ilex opaca (American holly) requires a stronger treatment, and for all varieties I use an indolebutyric powder containing 20 milligrams per gram (this is a 2 per cent powder). There is a definite interdependence between the type of cutting, the severity of the wound and the hor-

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Summary of a talk delivered by James S. Wells, Wells Nursery, Red Bank, N. J., at the annual meeting of the Plant Propagators Society, held last year at Cleveland, O.



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mone treatment. For instance, an Ilex opaca cutting of average size that has been double wounded will respond well to Hormodin No. 3, whereas the same cutting receiving only one wound will respond about the same if treated with 2 per cent indolebutyric acid. When large cuttings are made with fairly heavy 2-year-old wood at the base, a double wound plus treatment with 2 per cent indolebutyric acid may be necessary to achieve optimum results.

In 1953 the possible value of treating such cuttings with 1 per cent 245TP (Trichlorophenoxypropionic acid) was recorded, but it has since been found that, while this extremely strong hormone is successful on many varieties, it can be too strong if the condition of the wood is

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 Red Lake Currant, 1 and 2-yr.
 European Mountain Ash, 4 to 5, 5 to 6, 6 to 8 and 8 to 10 ft.
 American White Birch, 4 to 5 and 5 to 6 ft.
 Crab, Red Silver, 3 to 4 ft.
 Judas Tree (Redbud), 18 to 24 ins. and 2 to 3 ft.
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not exactly right. At the Wells Nursery, we have obtained such steady and adequate rooting with the use of 2 per cent indolebutyric acid that this somewhat less vigorous treatment has become standard, but we are testing another mixture of hormones which gives promise of being more effective on certain varieties, yet not so vicious as the 1 per cent 245TP. This mixture is made up of one part by bulk of 2 per cent indolebutyric acid, one part of 1 per cent 245TP, one part of 0.4 per cent naphthalene acetic acid and one part of Phygon.

Rooting Medium

Our standard rooting medium has been a mixture of equal parts of sharp sand and acid-type Dutch peat. However, Mr. Germain, Buckingham Nurseries, Philadelphia, Pa., has reported excellent rooting on Ilex opaca through the use of a hormone mixture similar to that described and a medium of 80 per cent acid peat and 20 per cent perlite. We are testing this for the first time this year on both rhododendrons and ilex, and it looks good. The rooting is rapid and vigorous, and the condition of the root system is excellent in both plants. However, most varieties of ilex seem to require no specific rooting medium.

For the rooting of all types of holly — English, American, Chinese — except Japanese holly (Ilex crenata and varieties), I recommend the 50-50 peat and sand mixture, with the suggestion that the perlite and peat mixture should be tested as a possibly superior substitute. For Ilex crenata and varieties, plain sharp sand is to be preferred. In all media, good drainage is required, because the maintenance of high humidity, either manually or by the use of a mist system, is essential, and this entails the use of much water.

High Humidity and the Use of Mist

A high level of humidity is generally regarded as essential for optimum results. W. H. Lindberg, reporting in Ohio Nursery Notes, September, 1952, states that excellent rooting can be obtained at temperatures of from 95 to 100 degrees Fahrenheit if the humidity is also maintained at 100 per cent. He also states that under these conditions the use of hormones is unnecessary. Roger Coggeshall reported that his tests were carried out under polyethylene film, and Roger W. Pease emphasized that 100 per cent humidity is essential.

There should be no question in any grower's mind that the applica-

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NEPCO LAKE NURSERY

Growers of Quality Evergreen Seedlings
Transplants and Lining-out Stock

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NEKOOSA-EDWARDS PAPER CO.
PORT EDWARDS, WIS. PHONE: 4037

tion of considerable quantities of water in one form or another is essential for the successful rooting of ilex. From the moment the cutting is removed from the parent plant the material should be maintained under conditions of high humidity and ample moisture. The cutting material must never be allowed to dry out, for if the wood becomes even slightly shriveled, successful rooting is highly improbable. If careful attention is given to this most vital point, particularly by the use of a mist system, the maintenance of highly humid and moist conditions in a well-drained medium can produce roots on a holly cutting in a remarkably short time. Growers report vigorous rooting in from four to eight weeks.

Most types of holly seem to respond to high temperatures, and a bottom heat of from 75 to 85 degrees F. would be preferable to one of from 60 to 70 degrees F. Rapid and vigorous rooting certainly is encouraged at the higher temperatures, but only when these are combined with conditions of high humidity. As the bench temperature drops below 65 degrees F., the speed and the vigor of the rooting decreases rapidly. Higher bench temperatures are clearly indicated, but only if the need for adequate moisture and humidity

RED and GOLD

JAVA RED WEIGELA

(Weigela florida atropurpurea)

An easily grown RED-LEAVED WEIGELA with clear pink flower clusters.

Heavy outdoor rooted cuttings,
\$30.00 per 100; \$250.00 per 1000.

"GOLD-LEAF" FORSYTHIA

(Forsythia intermedia aurea)

Golden-leaved Forsythia with pale yellow flowers. Found by us in a flowering shrub border.

Heavy outdoor rooted cuttings,
\$30.00 per 100, \$250.00 per 1000.

These two items are unusual, attractive and completely hardy in our locality. Order your stock early.

BEARDSLEE NURSERY

Perry, Ohio

SHRUBS

| | Per 100 | Per 1000 |
|--|---------|----------|
| Forsythia Lynwood Gold, 2 to 3 ft. | \$45.00 | \$350.00 |
| Forsythia Lynwood Gold, 3 to 4 ft. | 55.00 | 450.00 |
| Forsythia Batrix Farrand, 15 to 18 ins. | 35.00 | 250.00 |
| Golden Vicary Privet, 12 to 15 ins. | 35.00 | 250.00 |
| Variegated Privet, 15 to 18 ins. | 35.00 | 250.00 |

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Perry, Ohio

PERSONALLY Selected PANSIES

\$6.50 per 1000

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Deciduous Trees
Shrubs and Roses

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1251 Madison Ave. PAINESVILLE, O.

NORTHERN-GROWN SEEDLINGS and TRANSPLANTS

Transplants are hand transplanted, well-branched for potting or cans.

Per 100 Per 1000

| | | |
|--------------------------------------|---------|----------|
| Black Hills Spruce, 3-yr. 2 | | |
| 4 to 6 ins. | \$10.00 | \$ 80.00 |
| 6 to 8 ins. | 15.00 | 120.00 |
| 8 to 10 ins. | 18.00 | 150.00 |
| 10 to 12 ins. | 25.00 | 225.00 |
| Colorado Blue Spruce, 3-yr. 2 | | |
| 4 to 6 ins. | 12.00 | 100.00 |
| 6 to 8 ins. | 15.00 | 120.00 |
| 8 to 10 ins. | 18.00 | 150.00 |
| 10 to 12 ins. | 25.00 | 225.00 |
| American Arborvitae, 3-yr. 2 | | |
| 10 to 12 ins. | 12.00 | 100.00 |
| 12 to 15 ins. | 18.00 | 150.00 |

SEEDLINGS, 3-yr.

| | | |
|--------------------------------------|------|-------|
| Colorado Blue Spruce | | |
| 4 to 6 ins. | 4.50 | 40.00 |
| Black Hills Spruce | | |
| 4 to 6 ins. | 4.50 | 35.00 |
| White Spruce | | |
| 4 to 6 ins. | 4.00 | 35.00 |
| Ponderosa Pine | | |
| 6 to 8 ins. | 3.00 | 25.00 |
| 8 to 10 ins. | 3.50 | 30.00 |
| Austrian Pine | | |
| 6 to 8 ins. | 4.00 | 30.00 |
| 8 to 10 ins. | 5.00 | 40.00 |
| Scotch Pine, Riga or French | | |
| 6 to 8 ins. | 3.50 | 25.00 |
| 8 to 12 ins. | 4.00 | 35.00 |
| Mugho Pine, Tyrolean, sheared | | |
| 4 ins. | 5.00 | 45.00 |
| Norway Spruce | | |
| 4 to 6 ins. | 3.50 | 30.00 |
| 6 to 10 ins. | 4.50 | 40.00 |

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ROSE GROWERS, INC.**
MENTOR, O.

Write for your copy of
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HARDWOOD CUTTINGS

Unrooted

See our classified ad on page 93

BOB NEPRASH NURSERIES
Rt. 2, Cedar Rapids, Ia.

is understood and these conditions are provided.

Propagation in Frames

Frame propagation must be mentioned because it is important, particularly for some of the varieties that do not root readily, such as *Ilex pedunculosa*. We ran a series of tests at the Wells Nursery last winter using a well-constructed cinder block frame, electric cables as a source of bottom heat and a 50-50 mixture of peat and sand as a medium.

A line of Florida jets was installed down the center of the frame and misting was controlled by a percentage timer, which applied 24 seconds of mist every six minutes during the hours of daylight. This mist line was used for about six weeks after the cuttings were set in mid-November, then only intermittently as conditions indicated the necessity.

We set a number of varieties in the prepared frame and allowed them to remain undisturbed until late spring. The combination of mist, the right medium, treatment with indolebutyric acid and a fair length of time (about five months) resulted in excellent rooting on some varieties considered difficult to root.

Rooting Episode

An unusual episode occurring during these tests concerned the variety *Ilex aquifolium pyramidalis* compacta. We gathered these cuttings about the middle part of November, made them immediately, treated them with Hormodin No. 3 and inserted them in the frames. They began to callus well, and one or two commenced to root. Then, almost without warning, the cuttings began to drop their leaves. The dead leaves were removed as they fell, but all the cuttings were completely defoliated within two months, and it was considered that this batch of 1,000 cuttings would be a total loss.

In the spring, when the frames were opened up, nothing was done to the cuttings. They remained in the frame, and when we began to lift varieties on either side that were well rooted, these were left undisturbed. As the weather began to warm up, new growth could be seen breaking on the tops of all the completely defoliated sticks, and by the middle of May the cuttings were once more properly supplied with foliage. As soon as the new leaves were reasonably mature, rooting commenced, and within quite a short time practically all the cuttings were well rooted.

The development of the leaves at the top of the cuttings coincided

Quality liners for Fall, 1958, Spring, 1959

"Our constant wish is to serve you . . . to satisfy you is our deepest concern."

Per 100 Per 1000

| | | |
|--|---------|----------|
| European Mt. Ash | | |
| 6 to 9 ins. | \$ 6.00 | \$ 50.00 |
| 9 to 12 ins. | 8.00 | 70.00 |
| 12 to 15 ins. | 10.00 | 85.00 |
| Viburnum lantana, understock size | | |
| 4 to 6 ins. | 6.00 | 50.00 |
| Syringa vulgaris | | |
| 1-yr., strong | 6.00 | 50.00 |
| Green-leaved Barberry | | |
| 2-yr., 9 to 12 ins. | 6.00 | 50.00 |
| 2-yr., 12 to 18 ins. | 7.50 | 65.00 |
| 1-yr., 9 to 12 ins. | 5.00 | 40.00 |
| Quercus—Pin Oak | | |
| 2-yr., 12 to 15 ins. | 10.00 | 40.00 |
| 2-yr., 15 to 18 ins. | 12.50 | 100.00 |
| Red-leaved Barberry, good color | | |
| 1-yr., 6 to 9 ins. | 6.00 | 45.00 |

Flowering Crab Apple Grafts Strong, 1-yr., in field beds.

| | | |
|----------------------|-------|------|
| Malus Hopa | 25.00 | .... |
| Malus eleyi | 25.00 | .... |
| Malus Red Silver ... | 25.00 | .... |

Free Packing

CARLETON NURSERY CO.
Jones Rd. Carleton, Mich.

Euonymus Sarcocoe

Extra well rooted in bands.
\$30.00 per 100.

Euonymus vegetus

2-yr., 8 to 12 ins.,
\$18.00 per 100.

Boxwood, Carr's

Hardy type, 2-yr., from bands, well-rooted, \$32.50 per 100.

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HOLLAND and AMERICAN-GROWN BULBS

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HARDY ENGLISH IVY

(Hedera helix)

Rooted cuttings for landscape planting.

\$7.50 per 100; \$65.00 per 1000

BEARDSLEE NURSERY

Perry, Ohio

AMERICA'S BEST SOURCE FOR

HARDY PLANTS

Write for Trade List

MENTOR, OHIO

Wayside  Gardens

with the development of a good root system beneath, and we were finally able to lift and plant out, about the end of June, 940 cuttings from the 1,000 which were set in November. I believe that by leaving these cuttings completely undisturbed we finally ended with a reasonable percentage, but had they been moved or disturbed in any way while they were defoliated, then I am sure we would have raised none of them.

Hardy Broad-Leaved Evergreens

Broad-leaved evergreens of potential value in northern areas may be found if interested growers will take the time and trouble to look for varieties, already in existence, which are exceptionally hardy. I obtained a few cuttings of a variety of *Ilex opaca* called Johnson, from Joseph Gable, Stewartstown, Pa. Mr. Gable said that during the early spring of 1935, he had made a survey of the surrounding countryside to see if there were any plants of native *Ilex opaca* which were undamaged by the extreme cold of the winter of 1934.

Only one plant was found that was not damaged at all, and this was growing in an exposed situation on a farm belonging to a man named Johnson—hence the name of the variety. Mr. Gable propagated a few cuttings and has a tree in his nursery. As far as I know, no one is propagating or offering this variety now.

Plants such as these, which have to be searched for diligently, can perhaps extend the beauty and grace of the native American holly to areas where it is at present unknown.

ILLINOIS UNION CONTRACT

A labor contract and working agreement was entered into August 13 between Chicago and vicinity members of the Illinois State Nurserymen's Association and its subsidiary organizations and the local union No. 724. The contract is effective from September 1, 1958, to August 31, 1961, and provides for an immediate increase in the wages of nursery workers of 8 cents per hour and further increases of 7 cents per hour and 6 cents per hour, effective as of September 1, 1959, and September 1, 1960, respectively.

This applies to casual or steady nursery or landscape workers, foremen and store or yard salesmen. The contract also includes increases for teamsters, chauffeurs and winch truck drivers, as well as for tree trimmers and surgeons, foremen and apprentices, the last-named being required to work three years before becoming full-fledged tree trimmers.

TREE LIST FOR FALL AND SPRING 1958 — 1959

| | Per 100 | Per 1000 | Per 1000 in 10,000 lots |
|---|------------|-------------|----------------------------|
| Upright Yew , from seed, several times sheared 6 to 10 ins., XX | \$65.00 | .... | .... |
| Scotch Pine | | | |
| (2-1), 8 to 12 ins. | 12.00 | \$60.00 | \$56.00 |
| (2-1), 4 to 8 ins. | 10.00 | 45.00 | 42.50 |
| (2-0), 6 to 10 ins. | 8.00 | 34.00 | 32.50 |
| * (2-0), 4 to 8 ins. | 7.50 | 24.00 | 22.00 |
| * (2-0), 3 to 6 ins. | 6.00 | 22.00 | 20.00 |
| (2-0), 2 to 4 ins. | 5.00 | 16.00 | 14.50 |
| Scotch Pine, Auvergne, race Noble | | | |
| (2-1), 6 to 12 ins. | 12.00 | 60.00 | 56.00 |
| (2-0), 3 to 6 ins. | 8.00 | 26.00 | 24.00 |
| Austrian Pine | | | |
| (2-1), 4 to 8 ins. | 10.00 | 45.00 | 42.50 |
| * (2-0), 3 to 6 ins. | 6.00 | 22.00 | 20.00 |
| Colorado Blue Spruce | | | |
| (2-2), 6 to 10 ins. (this one item, fall only) | 20.00 | .... | .... |
| * (3-1), 6 to 12 ins. | 14.00 | 75.00 | 72.50 |
| * (3-0), 5 to 10 ins. | 9.00 | 45.00 | 42.50 |
| (3-0), 3 to 5 ins. | 6.00 | 26.00 | 24.00 |
| Norway Spruce | | | |
| (3-1), 6 to 14 ins. | 12.00 | 70.00 | 67.50 |
| * (3-0), 6 to 12 ins. | 8.00 | 40.00 | 37.50 |
| * (3-0), 3 to 6 ins. | 6.00 | 25.00 | 23.00 |
| White Spruce | | | |
| (3-1), 6 to 12 ins. | 12.00 | 70.00 | 67.50 |
| (3-0), 5 to 10 ins. | 8.00 | 45.00 | 42.50 |
| (3-0), 3 to 5 ins. | 6.00 | 25.00 | 23.00 |
| Black Hills Spruce | | | |
| (3-0), 4 to 8 ins. | 8.00 | 40.00 | 37.50 |
| (3-0), 2 to 4 ins. | 6.00 | 25.00 | 23.00 |
| Douglas Fir | | | |
| (2-0), 3 to 8 ins. | 6.00 | 28.00 | 26.00 |
| Ponderosa Pine | | | |
| (2-1), 3 to 6 ins. | 8.00 | 40.00 | .... |
| Norway Pine | | | |
| (2-1), 3 to 6 ins. | 8.00 | 40.00 | .... |
| Mugho Pine | | | |
| 4 to 8 ins., XX | 35.00 | .... | .... |

*Write for price on 50,000 or more of one grade.

TERMS: Cash with order, please, or 1/3 deposit, balance before shipment. 5% for cash with order; on spring orders, 5% for payment before December 1. 50 at 100 rate, 500 at 1000 rate, all seedlings sold in multiples of 50, all transplants sold in multiples of 10. Minimum order \$10.00. Packing charges included in price of trees.

MATTHEWS NURSERY

Harbor Springs, Mich.
Telephones: 123, 124 or 732

We have the following nursery-grown shade trees for fall, 1958.

| | |
|---|--|
| 200 Rubrum Maple, 1 1/4 to 1 1/2-in. cal., B.R. | 150 American Sycamore, 6 to 7 ft., B.R. |
| 50 Rubrum Maple, 1 3/4 to 2-in. cal., B.R. | 150 American Sycamore, 8 to 10 ft., B.R. |
| | 250 Acer dasycarpum, 6 to 7 ft., B.R. |
| | 300 Acer dasycarpum, 8 to 10 ft., B.R. |

Write for price list.

CASSINELLI'S GLENDALE NURSERIES, INC.

Glendale, Hamilton Co., Ohio
12 miles north of Cincinnati.



TAXUS

is our specialty.
Bed stock—Liners
Finished—Specimen.

Send for List

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BEGINNING IN THE NURSERY BUSINESS

By John J. Pinney. 54 p. (1958). \$1.00.
American Nurseryman Chicago 4, Ill.

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Very heavy, outdoor frame-grown, rooted cuttings—some branched—approximately one foot in height. These exceptional cuttings are heavily rooted on last year's wood. Try some and see how good they are.

\$18.00 per 100; \$150.00 per 1000.

BEARDSLEE NURSERY, Perry, O.

SPECIMEN LANDSCAPE STOCK

For Fall, 1958, Delivery

| | Each | Each 5 to 25 to 24 100 |
|--|--------|------------------------------|
| BALSAM FIR , heavy plants | | |
| 3 to 3 1/2 ft., B&B | \$3.50 | \$3.25 |
| 3 1/2 to 4 ft., B&B | 4.00 | ... |
| 4 to 4 1/2 ft., B&B | 5.50 | ... |
| 4 1/2 to 5 ft., B&B | 6.50 | ... |
| CANADIAN HEMLOCK , sheared, heavy plants | | |
| 2 1/2 to 3 ft., B&B | 4.25 | ... |
| 3 to 3 1/2 ft., B&B | 4.75 | ... |
| 3 1/2 to 4 ft., B&B | 5.25 | ... |
| 4 to 4 1/2 ft., B&B | 6.25 | ... |
| CRATAEGUS CORDATA (Washington Thorn) | | |
| 3 to 4 ft., B&B | 3.50 | ... |
| 4 to 5 ft., B&B | 4.75 | ... |
| CORNUS FLORIDA , white-flowering | | |
| 5 to 6 ft., heavy | 6.50 | ... |
| 6 to 8 ft., heavy | 7.50 | ... |
| JUNIPERUS PFITZERIANA , spreading | | |
| 24 to 30-in. spread | 3.50 | 3.25 |
| 30 to 36-in. spread | 4.00 | 3.50 |
| MAGNOLIA SOULANGEANA , pink | | |
| 3 to 4 ft., br. | 4.50 | 4.00 |
| MAGNOLIA NIGRA , dark purplish blooms | | |
| 3 to 4 ft., br. | 4.50 | 4.00 |
| TAXUS CUSPIDATA , spreading | | |
| 12 to 15-in. spread | 3.50 | 3.25 |
| 15 to 18-in. spread | 4.00 | 3.50 |
| TAXUS HICKSI , columnar | | |
| 15 to 18-in. height | 4.00 | 3.75 |
| 18 to 24-in. height | 5.00 | 4.50 |

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SPRING DELIVERY.

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25 miles west of Dayton, Ohio

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Good selection of varieties left. First-
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See page 37, September 1 issue of
American Nurseryman, for complete
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DUGAN NURSERIES, INC.

Center St. Perry, Ohio

Northern-Grown Liners Christmas Tree Seedlings Potted Evergreens

Send for price list.

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OBITUARY

Lawrence E. Stark

Lawrence E. Stark, 64, secretary-treasurer and western sales director of Stark Bros. Nurseries & Orchards Co., Louisiana, Mo., died August 13 in the Pike County hospital, Louisiana, Mo., of complications arising from a heart attack. Born at Louisiana, Mr. Stark attended the University of Missouri, Columbia, and in 1915 entered the Stark Bros. firm, which was founded by his great-grandfather.

A member of the Direct Sellers' Association, Mr. Stark was also active in many church, civic and fraternal groups in his community. Survivors include his widow, Marie Dickison Stark, and his brother, Edwin J. Stark, president of the nurseries.

Roger F. Sohner

One of California's leading arborists, Roger F. Sohner, died August 21. He was 59 years old and had suffered a heart attack a week earlier.

Mr. Sohner operated the Sohner Tree Service, San Anselmo, Calif., and for many years had contracts with the state's public utilities for line clearing and weed control. His crews worked in several parts of the state in this manner and he is credited with having done much of the work in clearing the woods so that utility lines could be strung in the High Sierras. He also did work on Marin county estates and other private lands and was an exponent of careful tree surgery in all of his operations. He gave unstintingly of his time to promote better tree surgery, attending meetings of arborists in all parts of the state for that purpose. He was a director of the Marin art and garden center, at Ross, and provided free care to the many trees in the area. The center's directors have announced the formation of a fund in his name to perpetuate the tree-care program. He also held offices in several local civic organizations, was a Mason and had held office, including the presidency, in both the California Association of Arborists and the western chapter of the National Shade Tree Conference.

The survivors include the widow, Alice; two daughters; a sister, and five grandchildren. The business will be continued by a son-in-law, Robert Phillips, who has been actively managing the tree service for the past

WISCONSIN - GROWN CHRISTMAS TREES

Balsam Fir, Native
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Sheared Scotch, White
and Red Pines

Boughs, Wreaths,
Roping

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| | Each |
|---|--------|
| Andorra Juniper | |
| 6 to 8 ins. | \$0.05 |
| Burk Juniper | |
| 6 to 10 ins. | .14 |
| Blue Hetz Juniper | |
| 6 to 10 ins. | .05 |
| Pfitzer Juniper | |
| 6 to 10 ins. | .07 |
| Plant bands | .16 |
| Euonymus patens , Small, medium or large leaved | |
| 8 to 10 ins. | .04 |
| Forsythia | |
| Beatrix Ferrand | |
| 6 to 10 ins. | .08 |
| Lynwood Gold | |
| 6 to 10 ins. | .05 |
| Spring Glory | |
| 6 to 10 ins. | .04 |
| Hypericum hidcote | |
| 6 to 10 ins. | .06 |
| Honeysuckle, Zabel | |
| 10 to 12 ins. | .05 |
| Honeysuckle Vine, heckrotti | |
| 10 to 12 ins. | .05 |

See classified under lining-out
stock for other items.

Less than 300, total order, 2c
more per plant. Less than 50 of any
item, 4c more per plant.

McININCH GREENHOUSES

St. Joseph, Mo.

several years while Mr. and Mrs. Sohner enjoyed traveling through many parts of this country and Mexico.

W. B. B.

Bert G. Clarke

Bert G. Clarke, 46, owner and manager of Roberts Nurseries, Inc., Littleton, Colo., died August 17 at an Englewood, Colo., hospital after suffering a heart attack. Mr. Clarke moved to Littleton in 1946, when he purchased Roberts Nurseries, Inc., from John Roberts, Englewood. Under his direction, the nursery landscaped the town of Los Alamos, N. M.; veterans' hospitals at Denver and Grand Junction, Colo., and the Reese air force base, Lubbock, Tex. He did much of the Lowry field (Colo.) landscaping and at the time of his death was working on the landscaping of several buildings at the Air Force Academy, Colorado Springs.

The owner of several Colorado ranches in addition to the nursery, Mr. Clarke was also a partner in the contracting firm of Clarke & Winslow, Los Alamos and Colorado Springs, and was a director of the Arapahoe County bank, Littleton. The nursery business will be continued by Mr. Clarke's widow, Lucille L. Clarke, and his son, Ray L. Clarke. Other survivors include a daughter, Berta Lou; a son, John; three grandchildren; three sisters, and four brothers.

Erick H. Lemmen

Erick H. Lemmen, Lemmen's Nursery, East Moriches, L. I., N. Y., died July 19 of a heart attack while returning from a European vacation on an airliner from Zurich, Switzerland. Born in Germany in 1899, Mr. Lemmen had lived at East Moriches since 1925. He operated a vegetable farm for many years before establishing Lemmen's Nursery in 1951. He was an active member of the Long Island Nurserymen's Association and of the New York State Nurserymen's Association. He is survived by his widow, Ella C. Lemmen; two sons, Josef, who was associated with him in the nursery business, and Erick; two daughters, and eight grandchildren.

Harvey Mosty

Harvey Mosty, 73, Mosty Bros. Nursery, Kerrville, Tex., died August 16 at a Kerrville hospital, where he had been undergoing treatment for a heart ailment. Mr. Mosty entered his father's nursery business at Kerrville at an early age, and he and his brother Lee assumed control of the firm in 1907. The business was moved the same year to Center Point,



A block of IMPERIAL Locusts in their second year at The Cole Nursery.

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Cole's New SKYLINE

(Plant Patent No. 1619)

Distinctive, stately variety with strong trunk and shapely crown. Needs no staking. Heavy, leathery, dark green foliage.

Millions of Trees and Plants. Cole can fill your order, in large or small quantity, from literally millions of trees and plants at our two nurseries. You can be sure of getting good plants, delivered promptly in good condition when you buy from Cole. We will welcome an opportunity to quote on your requirements.

360 Varieties. The new Cole catalog lists 100 varieties of Shade and Ornamental Trees, 86 Evergreens, 162 Deciduous Shrubs and 12 Miscellaneous items in a wide range of sizes to meet your needs.

High Quality. Cole nursery stock is grown under ideal soil conditions in widely spaced rows to promote full development of root, body and top. Modern mechanical methods of root-pruning and digging result in better, more compact, uninjured root systems. Cole trees and plants are healthy and sturdy, transplant more successfully.

Our business is strictly wholesale. We do not compete with retail nurseries. Write today for our latest wholesale catalog of sizes and quantity prices on all varieties.

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PAINESVILLE, OHIO

NEED SHADE TREES? BOY! WE GOT 'EM!

Ash, European White Birch, Chinese Elm, Sweet Gum, Hackberry, Thornless Honey Locust, Moraine Locust, Kentucky Coffee Tree, American Linden, Crimson King Maple, Norway Maple, Rubrum Maple, Sugar Maple, Silver Maple, Pin Oak, Red Oak, Japanese Pagoda, Tulip Tree, Weeping Willow, Mimosa and Sycamore.

All trees grown in rows 8 ft. apart, 2 to 4 ft. apart in the row for better root and top development. Sizes on above trees 1½ to 4-in. cal. Write for special prices on quantity or carloads. If you haven't received our new fall wholesale price list—write for one.

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Farina, Ill.

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POT-GROWN SPREADING - UPRIGHT -

Ilex cornuta burfordi

This superior self-fertile variety produces masses of glowing red berries in profusion. Clothes itself with deep green foliage. Considered very hardy.

2 1/4" pot - .18 Zone 5

Ilex aquifolium fertilis

Its vivid dark green foliage creates a delightful setting for the abundance of bright red berries produced by this exceptional self-fertile holly. Pleasing upright habit of growth.

2 1/4" pot - .25 Zone 6

Ilex altaclarensis wilsoni

Picturesque large, thick, dark green leaves and unexcelled bright red berries. Outstanding habit of growth. Ideal as a tree or large shrub.

2 1/4" pot - .25 Zone 6

Ilex crenata helleri

Small deep green leaves and a compact habit of growth are just a few of the many qualities of this low growing holly. Leaves are a rich green.

2 1/4" pot - .18 Zone 5

Ilex opaca East Palatka

Vigorous growing holly with attractive dark green foliage. Brilliant red berries that are produced in fall. Truly an outstanding holly.

2 1/4" pot - .20 Zone 5



Ilex cornuta (Seedlings)

Very attractive versatile holly. Growing in full sun or shade. Rich deep green foliage. Fast grower.

2 1/4" pot - .18

Zone 5

QUANTITY DISCOUNT

1000 plants...10% • 500 plants...5%

These discounts apply if the following requirements are met:

1. All plants must be of one variety.
2. All plants must be of one container size.
3. All plants must be shipped at one time.



HERE IT IS! More color—more information—more listings! The all-new MN general catalog for 1958-59 is ready for you now. Lists and describes over 1300 varieties of pot-grown ornamentals. More color photographs than ever before. Write us on your letterhead today for your FREE copy!

WHOLLY LINERS G-BUSHY-COMPACT

hardly profitable growing-
MN does now mean there's
ONUS in every MN liner.
for later future delivery.

Ilex cornuta rotunda

Unequaled! This superior low growing holly with its dense habit of growth has unlimited uses. Its attractive holly-like foliage is a deep glossy green. Excellent for borders and edgings.

2 1/4" pot - .25 Zone 6

Ilex vomitoria dwarf Yaupon

Shiny slightly spined leaves and remarkable low habit of growth make this variety desirable in every planting. Foliage is light green.

2 1/4" pot - .20 Zone 7

Ilex Green Island (Pat. No. 817)

Low spreading holly with a "horizontal" habit of growth. Unlimited uses for borders, planter boxes and foundation plantings. Attractive, small, deep green foliage.

2 1/4" pot - .35 Zone 5

Ilex cornuta femina

This low growing female holly produces a multitude of berries, surrounded by attractive bright green holly-like leaves. Adapts itself well to any planting.

2 1/4" pot - .25 Zone 6

Ilex crenata convexa (Bullata)

Unexcelled! Very glossy, small rounded leaves and very desirable low habit of growth. Foliage is deep green rich in color. A must for every holly planting and a must in your sales yard.

2 1/4" pot - .18 Zone 5



Ilex pernyi

Delightful pendulous branches with spiny pointed leaves are deep green in color edged with red. Creates a perfect setting for the bright red berries.

2 1/4" pot - .20 Zone 6



MONROVIA NURSERY CO.

P.O. BOX Q, AZUSA, CALIFORNIA

Christmas Tree List

Trees suitable for landscaping, good balls due to heavy soil condition. New burlap, treated or plain.

| Norway Spruce, B&B | 1 to 10 | 25 to 50 | 100 |
|--------------------|---------|----------|--------|
| 2 to 3 ft. | \$2.50 | \$2.25 | \$2.00 |
| 3 to 4 ft. | 3.50 | 3.25 | 3.00 |
| 4 to 5 ft. | 4.50 | 4.25 | 4.00 |

| White Pine, B&B | 2.50 | 2.25 | 2.00 |
|-----------------|------|------|------|
| 2 to 3 ft. | 3.75 | 3.50 | 3.25 |
| 3 to 4 ft. | 5.00 | 4.50 | 4.25 |
| 4 to 5 ft. | 6.50 | 6.25 | 6.00 |
| 5 to 6 ft. | 7.50 | 7.25 | 7.00 |

| Red Pine, B&B | 2.50 | 2.25 | 2.00 |
|-----------------|------|------|------|
| 2 to 3 ft. | 3.50 | 3.25 | 3.00 |
| 3 to 4 ft. | 5.50 | 5.00 | 4.75 |
| 4 to 5 ft. | 6.50 | 6.25 | 6.00 |
| 5 to 6 ft. | 7.50 | 7.25 | 7.00 |

| Scotch Pine, B&B | 3.00 | 2.75 | 2.50 |
|------------------|------|------|------|
| 2 to 3 ft. | 4.00 | 3.75 | 3.50 |
| 3 to 4 ft. | 5.50 | 5.00 | 4.75 |

| Austrian Pine, B&B | 3.00 | 2.75 | 2.50 |
|--------------------|------|------|------|
| 2 to 3 ft. | 4.00 | 3.75 | 3.50 |
| 3 to 4 ft. | 5.50 | 5.25 | 5.00 |
| 4 to 5 ft. | 6.50 | 6.25 | 6.00 |
| 5 to 6 ft. | 9.00 | 8.50 | 8.00 |

The Norway Spruce, White and Austrian Pine are growing on heavy soil, thus assuring good solid balls of soil. The Red and Scotch Pine are growing on lighter soil.

However, balls will be nailed and strung tightly. For heavy selected spruce use 10 rate on quantity.

Cut Christmas Trees

All No. 1 Grade

| Scotch Pine | 50 to 100 | 300 to 1000 |
|-----------------|-----------|-------------|
| 5 to 7 ft. | \$2.50 | \$2.35 |

Balsam Fir
\$5.50 per bundle, 10 to 40 bundles
\$5.00 per bundle, 50 to 100 bundles
4.75 per bundle, carlot, approximately 450 bundles to box car, delivered from Nova Scotia.

Single Balsam, tied separately
6 to 8 ft., \$2.00 each at nursery or \$1.75 each when combined in carlot.

Branches—With minimum of wood
Red Pine \$5.00 per 100 lbs.
Scotch Pine 6.00 per 100 lbs.
White Pine 7.00 per 100 lbs.
1000 lbs. or more, 1c less per lb.

For our complete list of Evergreens, Shade Trees and Shrubbery, write for list.
Delivery direct to you, rates reasonable.

Wade & Gatton Nurseries

Bellville, Ohio
Phone: TU 3-2191 Butler



OHIO'S LAKE COUNTY

One of the world's greatest nursery centers.

Send for free booklet and map.

Names, locations and types of plants grown by 83 members representing 4,000 acres of the very finest nursery stock. Write to:

THE LAKE COUNTY NURSERYMEN'S ASSN.
Box 49, MENTOR, OHIO

PEELE NURSERY

| Phone: 2-630 | Clarksburg, Ind. | Each |
|--|------------------|--------|
| Hetz Juniper, 36 to 42 ins. | | \$2.25 |
| Pfitzer Juniper, 30 to 36 ins. | | 2.50 |
| Arbovitae, Globe Woodward, 24 to 30 ins. | | 2.00 |
| Arbovitae, American Dark Green, 30 to 36 ins. | | 1.75 |

Will quote special prices on truckload orders.

Tex., where it was opened as Mosty Bros. Nursery. The brothers became well known in the region as pioneers in the grafting of soft-shelled pecans on hardy native pecan stock.

Mr. Mosty opened a branch of the nursery at Kerrville in the 1920's and moved there with his family, operating a flower shop and greenhouse in conjunction with the nursery. He was a member of the American Association of Nurserymen, the Texas Association of Nurserymen and several florists' associations. A member of the Baptist church and a Mason, he was also active in civic affairs in his community. Survivors include his wife, three daughters, a sister and four brothers.

Herbert A. Albyn

Herbert A. Albyn, proprietor of the H. A. Albyn Nursery, Newark, O., died at his Newark home August 15 of a heart attack. He was 75. Born at Chillicothe, O., Mr. Albyn established the nursery three miles east of Newark in 1924 and was a member of the Ohio Nurserymen's Association. In addition to the 200-acre nursery, where a full line of nursery stock and landscaping services are offered, Mr. Albyn opened a nursery shop in 1939 at Newark. Surviving are his wife, Clara; two sons, Everett, who was associated with his father in the operation of the nursery, and Robert; two daughters; two sisters, and 11 grandchildren.

D. Leslie Scott

D. Leslie Scott, former Elmsford, N. Y., nurseryman, died recently at the age of 58 at Kingsbridge Veterans hospital, New York, N. Y. Born at Tarrytown, N. Y., Mr. Scott was graduated from White Plains high school and entered the army during World War I. Returning from service in 1919, he joined his father, James T. Scott, and his uncle, William Scott, in the Scott Bros. Nurseries, Elmsford. During his association with the nursery he was a member of the American Association of Nurserymen and engaged in many community activities at Elmsford. He left Scott Bros. Nurseries in 1941 and was assistant manager of the Equitable Life Assurance Society group division at the time of his death. Survivors include his widow, Mrs. Helen K. Scott, and two daughters.

Harvey Lee Burns

Harvey Lee Burns, 50, a retired nurseryman, of Wills Point, Tex., died July 29 after a long illness. Born in 1908 near Canton, Tex., Mr. Burns began working in the rose fields at Myrtle Springs, Tex., at an

NEW AND COMING SURE-FIRE ROSES

BINGO

(Plant Pat. No. 1392)

A deep red hybrid tea with grandiflora tendencies. A. R. S. rating 7.9; is becoming more popular and the demand for spring, 1959, will be great. Order yours now! Suggested retail, \$2.50.

PINK FRAGRANCE

(Plant Pat. No. 1493), A.R.S. 1958, 7.6

A many-petaled pink rose with outstanding lustrous foliage. This vigorous bush is one of the best pink roses. Suggested retail, \$2.50.

| Each | Each | Each | Each |
|--------|----------|----------|------------|
| 1 to 9 | 10 to 19 | 20 to 99 | 100 to 249 |
| \$1.60 | \$1.40 | \$1.25 | \$1.20 |

Each 250 and up, \$1.10

ORDER THESE ROSES FROM ANY OF THE FOLLOWING NURSERIES:

The Monroe Nursery Co.
Monroe, Mich.

The Greening Nursery Co.
Monroe, Mich.

Peterson & Dering
Scappoose, Ore.

Shenandoah Nursery
Shenandoah, Ia.

Gerard Klyn Co.
Mentor, O.

Elmer Roses
4708 N. San Gabriel
San Gabriel, Calif.

GERARD K. KLYN, INC.

Mentor, Ohio

Wholesale Rose Growers and Nurserymen. 35 Years of Honest, Reliable Service.

Specializing in newest A. A. R. S. and other newer and older varieties. Taxus, True Red Japanese Maple, American, English and Japanese Hollies, Rhododendrons, Hardy Azaleas and many other choice items. Our list is yours for the asking.

THE HOME NURSERY

Corliss Ingels LaFayette, Ill.

Since 1887 in Stark County

At the junction of Rt. 17 and 78
Catering to midwestern landscape nurserymen.

Shade Trees—Shrubs—Evergreens.

Write for complete Wholesale List

GOLDEN VICARY PRIVET

Lovely, solid, golden-leaved variety. Extremely adaptable for a striking border. Retains full golden color from spring to fall. Beautiful for rose bed borders. Should have full sun.

| Potted liners | Per 100 | Per 1000 |
|-----------------|---------|----------|
| Rooted cuttings | \$15.00 | \$150.00 |
| | 10.00 | 80.00 |

BEARDSLEE NURSERY Perry, O.

early age. After being graduated from business college, he joined his father, R. W. Burns, and his brother, Leonard, in establishing the Burns Nursery & Flower Garden, Myrtle Springs. In 1930 Mr. Burns left the nursery, which is still operated by his father, and started his own rose-growing business. He and his wife moved to Wills Point in 1950 to establish a retail nursery business, which Mr. Burns operated until three years ago, when he was forced to retire because of ill health. Survivors include, in addition to his father and brother, his widow, Minnie Rebecca Burns, and a sister.

Mrs. Victor de St. Aubin, Sr.

Mrs. Victor de St. Aubin, Sr., 69, died August 30 of a stroke. She is survived by her husband, Victor de St. Aubin, Sr., Eugene A. de St. Aubin & Bro., Inc., Addison, Ill., who is a past president and treasure of the Illinois State Nurserymen's Association; her son, Victor, Jr., who is associated with his father in the business; a daughter, Mrs. Lillian Murphy, and seven grandchildren.

OPENING a new garden center is the Duncan Landscape Nursery, Evansville, Ind.

SPECIALS

Per 100 Per 1000

| | | |
|-------------------------------|---------|----------|
| Cotoneaster acutifolia | | |
| 12 to 18 ins. | \$ 8.00 | \$ 75.00 |
| 9 to 12 ins. | 6.50 | 62.50 |
| 6 to 9 ins. | 5.00 | 48.50 |

| | | |
|-------------------------------|------|-------|
| Improved Bush Cherries | | |
| 1-yr., 18 to 24 ins. . | 7.00 | 65.00 |
| 1-yr., 12 to 18 ins. . | 6.00 | 50.00 |

| | | |
|---|-------|--------|
| Improved Bush Cherries, transplanted and branched | | |
| 2 to 3 ft. | 30.00 | 285.00 |
| 18 to 24 ins. | 25.00 | 200.00 |

| | | |
|--|-------|--|
| Hardy Crab Apples, seedlings | | |
| No. 1, 3/16-in. cal. and up, straight. | 40.00 | |
| No. 2, 2.5/16-in. cal. and up, straight. | 30.00 | |

| | | |
|--|-------|--|
| Pyrus baccata, seedlings | | |
| No. 1, 3/16-in. cal. and up, straight. | 42.50 | |
| No. 2, 2.5/16-in. cal. and up, straight. | 30.00 | |

| | | |
|---------------------------|--------|--|
| Canada Red Rhubarb | | |
| No. 1 division | 250.00 | |

| | | |
|--------------------------|--------|--|
| MacDonald Rhubarb | | |
| No. 1 division | 250.00 | |

| | | |
|-------------------------------|--------|--|
| Valentine Rhubarb, new | | |
| No. 1 division | 400.00 | |

Write for prices on quantity lots.

SUMMIT NURSERIES, INC.
Stillwater, Minn.

FALL, 1958

A few items in quantity.

Biota aurea nana
Juniper, canaerti
Juniper, depressa plumosa
(Andorra)
Juniper, glauca
Juniper, keteleeri
Juniper, Pfitzer, extra good
Juniper, stricta
Taxus cuspidata
Euonymus alatus
Euonymus alatus compactus
Euonymus erectus
Euonymus patens
Euonymus vegetus
Ash, European Mountain
Cornus florida
Cornus rubra
Elm, Chinese
Crab Apple, Flowering
Locust, Honey
Magnolia
Maple, Crimson King
Maple, Norway
Maple, Columnar
Maple, rubrum
Maple, schwedleri

Maple, Silver
Maple, Sugar
Oak, Pin
Prunus Newport
Prunus Thundercloud
Redbud
Sweet Gum, TT, once root-pruned
Tulip Tree
Willow, Thurlow
Almond, Pink
Currant, Alpine
Barberry, Green
Barberry, Red
Barberry, mentorensis
Cotoneaster divaricata
Forsythia
Honeysuckle Bush
Philadelphus aureus
Philadelphus grandiflora
Philadelphus Virginal
Privet, Golden
Privet, Regel's
Privet, Amur North, heavy
Spiraea vanhouttei
Viburnum dentatum

All kinds of fruit trees, 1 and 2-yr.

C. M. HOBBS & SONS, INC.

Bridgeport, Ind.

Phone: Indianapolis, CHapel 4-1812

King-Size Outdoor-Rooted Cuttings BEATRIX FARRAND

Forsythia

ARNOLD ARBORETUM INTRODUCTION

Brand new beauty with golden florets often 2 ins. across — orange throat. This stock is propagated outdoors and may be lined out directly into the field. Get this new beautiful flowering shrub to please your customers.

\$15.00 per 100

\$135.00 per 1000

BEARDSLEE NURSERY

Perry, Ohio

ORNAMENTALS TREES SHRUBS EVERGREENS

Wholesale growers of a
general assortment for
the best landscape plantings.

BRYANT'S NURSERIES

Princeton, Illinois

WE OFFER...

Our General Line of

SMALL FRUIT PLANTS

Let us quote on your
requirements.

L. J. RAMBO'S WHOLESALE NURSERIES

Bridgman, Michigan

BOOKS on PROPAGATION

Plant Propagation Practices. by James S. Wells. Gives a wealth of information on water, heat, light requirements, shading, methods of handling seeds and cuttings. Directions for grafting, layering and division, control of pests and diseases and preparation of propagated material for field planting. Detailed procedures for a select group of plants. 344 p., illus. (1955) **\$7.50**

Propagation of Plants. by M. G. Kains and L. M. McQuesten. A reference book for propagators in greenhouse and nursery. It includes seed testing, layerage, division, separation, rooting cuttings by growth-stimulating substances, greenhouse fumigation, grafting, budding, stock and scion handling, nursery management and pest control. 375 illus. 637 p. (1942) **\$6.00**

Plant Breeding for Everyone. by John Y. Beatty. How to find and develop new plant varieties. Covers testing, naming, introducing and patenting new varieties and the technique of hybridization. 102 p., illus. (1954) **\$2.75**

Plant Propagation. by Mahlstedt and Haber. Basic principles, including details of practice. New techniques of propagation, producing hybrids and seed production. Covers propagation of specific plants, propagating structures and mist propagation and its control. 413 p., 188 illus. (1957) **\$7.50**

The Grafter's Handbook. by R. J. Garner. Information on almost every known method of grafting. Describes seedling and vegetative propagation of rootstocks, handling of scion wood, choice and use of tools. 24 p. of photographs. Many line drawings. 223 p. (1949) **\$4.50**

How to Increase Plants. by A. C. Hottes. Tells how to multiply plants by the most suitable method of propagation. Discusses seeds, cuttings, bulbs, grafting, fruit stocks, annuals, perennials, conifers, orchids, ferns, roses, trees and shrubs. 279 p., 128 illus. (1949) **\$3.50**

Improved Practices in Propagation by Seed. by L. C. Chadwick. Collecting, storage, stratification practices. Booklet. (1936) **25c**

AMERICAN NURSERYMAN

343 S. Dearborn St.

Chicago 4, Ill.

PINK FLOWERING DOGWOOD
CORNUS FLORIDA RUBRA

| | | |
|------------|-----------------|------------------------|
| 3 to 4 ft. | 2-Yr., Well-Br. | 3 and 4-Yr., Heavy-Br. |
| 4 to 5 ft. | \$1.50 each | \$2.00 each |
| 5 to 6 ft. | 2.50 each | 4.00 each |
| 6 to 7 ft. | 3.50 each | 5.00 each |
| | 6.00 each | 7.50 each |

Dogwoods — B&B — 50c extra per tree

Boyd Nursery Co., McMinnville, Tenn.

Introducing — EUONYMUS PAULI

Bush type, holds good green color all winter, shears well. From the Patens type. Nearly nonfruiting. Can be used in any location.

| | Each | Each Per 25 | Each Per 100 | Each Per 1000 |
|--------------------|--------|-------------|--------------|---------------|
| 9 to 12 ins., B&B | \$1.00 | \$0.95 | \$0.85 | \$0.75 |
| 12 to 15 ins., B&B | 1.25 | 1.20 | 1.15 | 1.00 |
| 15 to 18 ins., B&B | 1.50 | 1.40 | 1.25 | .. |

All heavy plants. No shipping.

Potted, 1-yr. plants, \$18.00 per 100. These can be shipped.

PAUL'S NURSERY

R. D. 3

Shelby, Ohio

COMMERCIAL Nursery Co.
ESTABLISHED 1900
Decherd, Tennessee

CHINESE CHESTNUT TREES

Seedlings only of the Peter Lul strain, 1-yr. whips and 2-yr. branched, mostly Nanking progeny. Also, properly stored weevil-free seed nuts. Our low costs of production permit low quantity prices. Inquiries invited.

LEELAND FARMS
Leesburg, Ga.

Our Trade List Shows

Shrubs — Magnolias — Dogwood —
Roses
Finished and Liners
Also Dependable Nursery Supplies
CHASE NURSERY CO., INC.
Chase, Ala.

Wisconsin Meet Held at Madison

By Thomas S. Pinney

Clear skies and pleasant weather helped to make the summer meeting of the Wisconsin Nurserymen's Association, held August 25 and 26 at Madison, a successful and enjoyable event. A committee headed by Richard Meland, president of the Madison Landscape Nurserymen's Association, arranged the entire 2-day program. Registration began Monday morning at 9:30 and was followed by a trip through the new buildings on the University of Wisconsin college of agriculture campus.

Babcock Hall, a new bacteriology building, recently constructed dormitories and the new greenhouses, viewed on the tour, indicate the growth taking place at the agricultural college. Prof. William Longenecker, landscape department, and William Barringer, floriculture department, conducted an informative and interesting trip through the arboretum and greenhouses.

Monday Evening Barbecue

After the trip through the arboretum Monday afternoon, the group met at Hoyt park a short distance from the university for a barbecue dinner given by Dairy Organic Compost, fertilizer manufacturer, Germantown, Wis. Since the nurserymen's meeting was planned to fall between the summer and autumn school terms, the short course dormitories were made available to the members Monday night.

Tuesday morning a trip was planned for the women through the governor's mansion, and tours through additional parks and garden centers were arranged for the men. At noon all met at Firemans park, Waterloo, Wis., 30 miles northeast of Madison. Here the McKay Nursery Co. served a most delicious dinner, after which buses were provided for the entire group for a trip through the nursery.

A McKay official in each bus explained the various operations of the firm. In spite of the fact that the Waterloo area of Wisconsin is suffering one of its driest years, all stock in the well-organized and excellently maintained nursery appeared to be in good condition. According to Carl Junginger, vice-president of the nursery, there has been less than one-half inch of rain in the area since Memorial day.

CUMBERLAND VALLEY NURSERIES, Inc.

McMinnville, Tenn.

Phone: 2616

Fall, 1958 — Spring, 1959

Let us supply your needs in the following top-quality stock. We have fair quantities in the items listed and will be happy to hear from you soon.

HIGHEST-QUALITY SHADE AND ORNAMENTAL TREES

Grown from root-pruned, transplanted liners.

ACER DASYCARPUM (Silver Maple) Each

| | |
|--|--------|
| 6 to 8 ft., T., well-br., tops..... | \$0.70 |
| 8 to 10 ft., T., well-br., tops, 1 1/4 to 1 1/2-in. cal... | 1.00 |
| 10 to 12 ft., T., well-br., tops, 1 1/2 to 2-in. cal. | 1.50 |
| 12 to 14 ft., T., well-br., tops, 2-in. and up | 1.75 |

CERCIS CANADENSIS (American Redbud)

| | |
|--------------------------------|------|
| 5 to 6 ft., T., well-br. | .60 |
| 6 to 8 ft., T., well-br. | .90 |
| 8 to 10 ft., T., well-br. | 1.25 |

LIRIODENDRON TULIPIFERA (Tulip Poplar)

| | |
|---------------------------------|------|
| 5 to 6 ft., T., well-br. | .60 |
| 6 to 8 ft., T., well-br. | .90 |
| 8 to 10 ft., T., well-br. | 1.25 |
| 10 to 12 ft., T., well-br. | 1.75 |

(\$1.00 extra per tree for B&B)

ALBIZZIA JULIBRISSIN (Mimosa Tree)

| | |
|--------------------------------|------|
| 5 to 6 ft., T., well-br. | 1.00 |
| 6 to 8 ft., T., well-br. | 1.25 |
| 8 to 10 ft., T., well-br. | 1.50 |

(2-yr., staked, extra-nice heads)

PLATANUS OCCIDENTALIS (American Sycamore)

| | |
|--|------|
| 6 to 8 ft., T., well-br. | .70 |
| 8 to 10 ft., T., well-br., 1 1/4 to 1 1/2-in. cal. | 1.00 |
| 10 to 12 ft., T., well-br., 1 1/2 to 1 3/4-in. cal. | 1.25 |
| 10 to 12 ft., T., well-br., 1 3/4 to 2 -in. cal. | 1.50 |

ULMUS PUMILA (Chinese Elm)

| | |
|---------------------------------|------|
| 5 to 6 ft., T., well-br. | .60 |
| 6 to 8 ft., T., well-br. | .80 |
| 8 to 10 ft., T., well-br. | 1.25 |
| 10 to 12 ft., T., well-br. | 1.50 |

MALUS (Flowering Crab Apple) Each

Varieties:

Almey, Dolgo, Eleyi, Floribunda, Hopa,
Red Silver, Red-vein

| | |
|---|--------|
| 18 to 24 ins., 1-yr., graft whips | \$0.20 |
| 2 to 3 ft., 1-yr., graft whips | .25 |
| 3 to 4 ft., 1-yr., graft whips | .35 |
| 4 to 5 ft., 1-yr., graft whips | .45 |
| 3 to 4 ft., 2-yr., br., grafts | .60 |
| 4 to 5 ft., 2-yr., br., grafts | .75 |
| 5 to 6 ft., 2-yr., br., grafts | 1.00 |

(Eleyi and Hopa only in 2-yr. crab apples)

PRUNUS PERSICA (Flowering Peach)

Double Red
Double White
Redleaf (Combination Fruiting and Flowering
Peach)

| | |
|--------------------------------|-----|
| 12 to 18 ins., June Buds | .20 |
| 18 to 24 ins., June Buds | .25 |
| 2 to 3 ft., June Buds | .35 |
| 3 to 4 ft., June Buds | .45 |

PRUNUS THUNDERCLOUD (Purple-Leaved Plum)

| | |
|--------------------------------|-----|
| 12 to 18 ins., June Buds | .20 |
| 18 to 24 ins., June Buds | .25 |
| 2 to 3 ft., June Buds | .35 |
| 3 to 4 ft., June Buds | .45 |

FRUIT TREES

PEACH, June Buds

Complete assortment of best commercial varieties.

APPLE, 2-yr.

| | |
|--|----------------------|
| 7/16 to 9/16-in. cal., 2-yr., br., grafts | \$0.35 |
| 9/16 to 11/16-in. cal., 2-yr., br., grafts | .45 |
| 11/16 to 1-in. cal., 2-yr., br., grafts | .55 |
| 1-in. cal. and up, 2-yr., br., grafts | .65 |
| Early Harvest | Red Rome Beauty |
| Yellow Delicious | Virginia Red Winesap |
| Dark Red Delicious | Dark Red Stayman |

APPLE, 1-yr.

| | |
|---|----------------------|
| 18 to 24 ins., 1-yr., graft whips | \$0.12 1/2 |
| 2 to 3 ft., 1-yr., graft whips | .17 1/2 |
| 3 to 4 ft., 1-yr., graft whips | .27 1/2 |
| 4 to 5 ft., 1-yr., graft whips | .32 1/2 |
| Anoka | Yellow Delicious |
| Lodi | Dark Red Delicious |
| Yellow Transparent | Red Rome Beauty |
| Red June | Dark Red Stayman |
| Dark Red Jonathan | Virginia Red Winesap |
| Grimes Golden | |

TERMS: Our terms are net, 30 days from invoice date, to firms with established credit or we will allow 2% cash discount and free packing for cash with order.

KANSAS ASSOCIATION

[Continued from page 13]

and the federal government have been interested in this law for some time. The original law was written in 1956 and revised June 28, 1958.

Mr. Bailey explained the most important sections of the act and then stated that this law has to be enforced to be effective. The federal trade commission has limited policing powers, but has excellent prosecuting powers. Therefore, nurserymen should report any violation to the commission.

Mr. Bailey, in his capacity as regional director of the A. A. N., re-

ported on further activities of the association. He stated that the A. A. N. had approved the publishing of a manuscript by Arie den Boer on ornamental flowering crab apples. This book will be a valuable asset to any library, both public and private. Mr. Bailey also explained the forthcoming management conference sponsored by the A. A. N., which will be beneficial to both owners and managers.

After a short recess, the business session was conducted. Earl Wickstrom, Osage City, chairman of the highway development committee, reported that there has been an up-

swing in the roadside improvement work in Kansas due to the efforts of the Kansas state highway commission and the A. A. N. highway development program. The state of Kansas now has 130 roadside parks, used by 150,000 people per year. The highway commission recently instituted a tree-saving program to retain all existing plants possible. Mr. Wickstrom estimated that Kansas now ranks between 5th and 10th among the states in quantity and quality of state roadside parks and is progressing rapidly.

Harold Crawford proposed that the highway committee of the

EVERGREENS

Offered in truckload lots. No boxing.

Each 10 to 50 Each 50 and up

CONIFEROUS:

| | | |
|--------------------------|--------|--------|
| Hemlock, Canadian | | |
| 18 to 24 ins. | \$2.25 | \$2.10 |
| 2 to 2 1/2 ft. | 2.75 | 2.60 |
| 2 1/2 to 3 ft. | 3.50 | 3.30 |
| 3 to 3 1/2 ft. | 4.50 | 4.30 |
| 3 1/2 to 4 ft. | 5.50 | 5.25 |
| 4 to 5 ft. | 6.50 | ... |

| | | |
|---------------------|------|------|
| Pine, white | | |
| 18 to 24 ins. | 2.25 | 2.10 |
| 2 to 2 1/2 ft. | 3.00 | 2.85 |
| 2 1/2 to 3 ft. | 4.00 | 3.80 |
| 3 to 4 ft. | 5.50 | 5.25 |
| 4 to 5 ft. | 7.00 | 6.75 |
| 5 to 6 ft. | 8.50 | 8.25 |

| | | |
|-----------------------|------|------|
| Spruce, Norway | | |
| 18 to 24 ins. | 2.00 | 1.75 |
| 2 to 2 1/2 ft. | 2.50 | 2.25 |
| 2 1/2 to 3 ft. | 3.00 | 2.75 |
| 3 to 4 ft. | 3.50 | 3.25 |
| 4 to 5 ft. | 4.75 | 4.50 |

| | | |
|------------------------|------|------|
| Taxus cuspidata | | |
| 15 to 18 ins. | 3.25 | 3.00 |
| 18 to 24 ins. | 4.00 | 3.75 |
| 2 to 2 1/2 ft. | 5.00 | 4.75 |

| | | |
|------------------------|------|------|
| Taxus hatfieldi | | |
| 15 to 18 ins. | 3.25 | 3.00 |
| 18 to 24 ins. | 4.00 | 3.75 |

| | | |
|----------------------|------|------|
| Taxus bicolor | | |
| 18 to 24 ins. | 3.75 | 3.50 |
| 2 to 2 1/2 ft. | 5.00 | 4.75 |
| 2 1/2 to 3 ft. | 6.75 | 6.50 |

BROAD-LEAVED:

| | | |
|--------------------------|------|------|
| Ilex rotundifolia | | |
| 15 to 18 ins. | 2.00 | 1.85 |
| 18 to 24 ins. | 2.75 | 2.50 |

| | | |
|----------------------------|------|------|
| Ligustrum ionandrum | | |
| 18 to 24 ins. | 1.35 | 1.25 |
| 2 to 2 1/2 ft. | 1.85 | 1.65 |
| 2 1/2 to 3 ft. | 2.30 | 2.20 |

| | | |
|--------------------------|------|------|
| Ligustrum lucidum | | |
| 15 to 18 ins. | 1.35 | 1.20 |
| 18 to 24 ins. | 1.75 | 1.60 |
| 2 to 2 1/2 ft. | 2.25 | 2.10 |

Ask for prices on other evergreens, also our complete wholesale price list.

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Close (Improved Astrachan Red) on No. 9, No. 7.

Cortland on No. 9; No. 7; No. 2.

Delicious (Red) on No. 9; No. 7; No. 2.

Lodi (Improved Yellow Transparent) on No. 9; No. 7.

McIntosh on No. 9; No. 7; No. 2.

Red Melba on No. 9; No. 7; No. 2.

Spy on No. 9; No. 7; No. 2.

Wealthy on No. 7; No. 2.

Yellow Delicious on No. 9; No. 7; No. 2.

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K. A. N. be authorized to notify the proper authorities in the state that the association supports the antibillboard law. John Pinney also proposed that the association commend the Kansas highway commission for the fine work it is doing on behalf of roadside improvement. Both proposals were passed unanimously. Vincent Bailey stated that Dr. Richard P. White, executive vice-president of the A. A. N., succeeded in placing the antibillboard law on a recent interstate highway bill, but that it was removed at the last moment. Dr. White's hopes are high to get this legislation enacted as a rider on a future bill.

Dr. Keen announced that the Kansas Association of Nurserymen is now 34 years old, having been founded on January 23, 1924. A new active member taken into the association is Forest Hill Nursery, Wichita. Both Dr. Knutson, of Kansas University, and Dr. Michener, of Kansas State College, the Kansas state entomologists, were elected to honorary membership.

Frank Virr, assistant state highway engineer, addressed the association on the "Kansas Highway Program and Landscape Policy." Both the 1956 and 1958 federal highway aid acts have given a boost to Kansas highways, allowing the state to complete some of its long-range plans much earlier than originally anticipated. In 1958, expenditures for highway work in Kansas should reach 75 to 80 million dollars. This money is being spent on new highways to complement the already existing thoroughways and also on enlargement of the latter. The year 1959 promises to be equally good, if not larger in expenditures.

Highway Planting Policy

The Kansas state highway commission's basic landscape policy is to seed all side, grading or disturbed areas along new and repaired roads. A relatively small part of available funds is spent on decorative plantings at selected points, such as interchanges and roadside parks. In addition to its 130 roadside parks, Mr. Virr stated, Kansas provides 70 picnic table sites. Construction of these parks and picnic sites will continue as long as maintenance can be provided and as long as the cost and use are justified. A poorly maintained park is actually a detriment, rather than a credit to the state; so more money will be spent in this direction than on additional construction in the future.

Of the total highway spending of \$55 million in 1957, \$800,000 was

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| | Per 10 | Per 100 |
|----------------------------|--------|---------|
| 2 to 3 ft., 5/16-in. cal. | \$0.35 | \$0.30 |
| 3 to 4 ft., 7/16-in. cal. | .45 | .35 |
| 4 to 5 ft., 9/16-in. cal. | .55 | .50 |
| 5 to 6 ft., 11/16-in. cal. | .65 | .60 |
| 6 ft. and up..... | 1.00 | .. |

| | |
|-----------------------|-------------------------|
| Mayflower | Early Elberta |
| Dixigem | Hiley Belle |
| Dixired | Belle of Georgia |
| Golden Jubilee | J. H. Hale |
| Cardinal | Elberta |
| Halehaven | Indian Cling |

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|---|----------|--|
| Top size—13 cm. and up | Per 1000 | |
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| Clara Butt—Appleblossom-pink, 26 ins. | 42.00 | |
| Cordell Hull—Red with white stripes | 46.00 | |
| Farncombe Sanders—Rose-scarlet, 28 ins. | 44.00 | |
| Golden Age—Deep buttercup-yel., 26 ins. | 42.00 | |
| Greuze—Violet-blue, 26 ins. | 40.00 | |
| La Tulipe Noire—Purple-black, 26 ins. | 44.00 | |
| Paul Richter—Geranium Lake, 24 ins. | 44.00 | |
| Philip Snowden—Salmon-pink, 26 ins. | 44.00 | |
| Pride of Haarlem—Large red, 28 ins. | 44.00 | |
| Princess Elizabeth—Rose-pink, 26 ins. | 42.00 | |
| Queen of Night—Black, 28 ins. | 42.00 | |
| Red Pitt—Scarlet, good forcer, 26 ins. | 46.00 | |
| Rose Copland—Orchid, 24 ins. | 42.00 | |
| Sunkist—Lemon-yellow, 28 ins. | 44.00 | |
| The Bishop—Blue, 28 ins. | 46.00 | |
| Wm. Pitt—Red, 24 ins. | 44.00 | |
| Yellow Giant—Deep yellow, 30 ins. | 40.00 | |
| Zwanenburg—Pure white, 26 ins. | 50.00 | |
| Rainbow Mixture—All colors | 40.00 | |

Cottage Tulips

| | |
|--|-------|
| Albine—Pure white, 22 ins. | 46.00 |
| Carrara—Pure white, 24 ins. | 46.00 |
| Golden Harvest—Pure, large yellow | 42.00 |
| Marjorie Bowen—Soft salmon-rose, 28 ins. | 42.00 |
| Mrs. J. T. Scheepers—Yellow, 26 ins. | 44.00 |
| Princess Margaret Rose—Yellow, red edge. | 42.00 |
| Rainbow—Fine Mixture | 38.00 |

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| | |
|----------------------------------|-------|
| Princess—Immense large scarlet | 52.00 |
| Red Emperor—Extra-large, scarlet | 55.00 |

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| (In bags of 100) | | |
|-------------------------------------|----------|--|
| Top Size | Per 1000 | |
| Couleur Cardinal—Dark red | \$55.00 | |
| Keizerskroon—Red with yellow border | 55.00 | |

Double Tulips

| | |
|-------------------------|-------|
| Electra—Wine-red | 54.00 |
| Mr. Van der Hoef—Yellow | 54.00 |
| Orange Nassau—Orange | 54.00 |
| Peachblossom—Deep pink | 54.00 |

Parrot Tulips

| Top size 13 cm. and up | | |
|---------------------------------------|-------|--|
| | | |
| Blue Parrot—Heliotope | 42.00 | |
| Fantasy—Clear pink with green stripes | 46.00 | |
| Orange Favorite—Deep fragrant | 46.00 | |
| Red Champion—Immense, fiery-red | 55.00 | |
| Sunshine—Golden-yellow | 55.00 | |
| Texas Gold—Orange-yellow, 24 ins. | 44.00 | |
| Therese—Cherry-red (strong) | 50.00 | |

Triumph Tulips

| Top size 13 cm. and up | | |
|--|--|----------|
| | | Per 1000 |
| Bandoeng—Mahogany-orange, 24 ins. | | \$42.00 |
| Crater—Deep crimson-red | | 44.00 |
| Denbola—Deep amaranth, white edge, | | |
| 26 ins. | | 50.00 |
| Edith Eddy—Red with white border | | 40.00 |
| Elmus—Scarlet, creamy-white edge | | 46.00 |
| Kansas—Pure white | | 44.00 |
| Makassar—Deep yellow, 24 ins. | | 50.00 |
| Paris—Orange-red, edge yellow, 24 ins. | | 50.00 |
| Red Giant—(The best red) | | 44.00 |
| Ursa Minor—Golden-yellow | | 48.00 |
| Wisconsin—Appleblossom, 28 ins. | | 44.00 |

Peony-flowering Tulips

| | |
|--|-------|
| Eros—Old rose, very double, 28 ins. | 50.00 |
| Livingstone—Bright scarlet, 28 ins. | 46.00 |
| Mt. Tacoma—Pure white, 26 ins. | 52.00 |
| Nizza—Yellow striped, feathered red, | |
| 26 ins. | 52.00 |
| Uncle Tom—Dark glittering red, 28 ins. | 46.00 |

SPECIAL NEW HYBRID DARWIN TULIPS

DOVER—Length of petal, 3½ ins., fully open, 8 ins. across, fiery poppy-red, large.
 GENERAL EISENHOWER—Length of petal, 3½ ins., fully open, 8 ins. across, orange-red.
 GUDOSHNIK—Length of petal, 4 ins., fully open, 8½ ins. across, yellow, spotted red, striking.
 PRESIDENT ROOSEVELT—Length of petal, 4½ ins., fully open, 9½ ins. across, warm rose-red.
 HOLLAND'S GLORY—Length of petal, 3½ ins., fully open, 8 ins. across, orange-scarlet.
 RED MATADOR—Length of petal, 3½ ins., fully open, 8 ins. across.
 EMPIRE STATE—Largest and tallest of all. First time out this year, crossing Red Emperor and Red Pitt. 9½ ins. across.

Packed 25 to a bag, \$8.50 per 100.

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| Heavy Mother Bulbs | | |
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| | | Per 1000 |
| Geranium poetaz—6 to 8 flowers | | \$70.00 |
| Golden Harvest—Very large yellow | | 110.00 |
| Imperator—Large pure white | | 100.00 |
| King Alfred—Best yellow, frilled | | 90.00 |
| Mount Hood—Large white | | 100.00 |
| Mrs. R. O. Backhouse—Pink | | 110.00 |
| President Lebrun—Bicolor | | 110.00 |
| Rembrandt—Large yellow—Imperial | | 90.00 |
| Scarlet Elegance—Yellow, cup deep orange | | 90.00 |
| Texas—Double orange | | 100.00 |
| Thalia—Pure white, 4 to 5 blooms | | 100.00 |
| Mixture for Naturalizing—D.N. and Round | | 50.00 |

DUTCH IRIS

| | 10 to 11 cm. | 9 to 10 cm. | 8 to 9 cm. |
|-----------------------|--------------|-------------|------------|
| Wedgwood—Light blue | \$50.00 | \$35.00 | \$20.00 |
| | 8 to 9 cm. | 7 to 8 cm. | 6 to 7 cm. |
| Golden Harvest—Yellow | \$25.00 | \$18.00 | \$12.00 |
| H. C. Van Vliet—Blue | 25.00 | 18.00 | 12.00 |
| Imperator—Deep blue | 25.00 | 18.00 | 12.00 |
| White Excelsior—White | 25.00 | 18.00 | 12.00 |

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CROCUS

| | 9 to 10 cm. | 8 to 9 cm. |
|---------------------------------|-------------|------------|
| Purpureus Grandiflorus— | 10 cm. | 9 cm. |
| Large purple | \$20.00 | \$16.00 |
| Mont Blanc—Pure white | 26.00 | 20.00 |
| King of the Striped—White lilac | 20.00 | 16.00 |
| Mammoth Yellow—Golden-yellow | 24.00 | 20.00 |
| Mixture—All colors | 18.00 | 16.00 |
| Snowdrops, nivalis | | 30.00 |
| Scilla Campanulata—in 3 colors, | | |
| blue, white, pink | | 25.00 |
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HYACINTHS

(Packed 50 in a bag)

| | |
|--------------------------------|--|
| Bismarck, porcelain-blue | |
| Carnegie, pure white | |
| Delft Blue, fine blue | |
| La Victoire, fine red | |
| L'Innocence, pure white | |
| Marconi, deep pink | |
| Ostara, medium blue | |
| Pink Pearl, rich deep pink | |
| Queen of the Pinks, large pink | |
| Yellow Hammer, golden-yellow | |

| | |
|---------------------------------|---------|
| Top size 18 to 19 cm. | Per 100 |
| Extra bedding size 15 to 18 cm. | \$13.00 |
| | 8.00 |

MUSCARI

| (Grape Hyacinth) Top size | | |
|---------------------------|--|----------|
| | | Per 1000 |
| Album—White | | \$20.00 |
| Album—White | | 35.00 |

spent on roadside improvement. So far in 1958, a total of \$39.6 million has been spent, \$750,000 of which has been spent on roadside improvement. This is approximately 92 per cent of the expenditures in 1957. To date in 1958, 18 new roadside parks are planned, plus a substantial amount of highway stop and historical site landscaping.

Mr. Virr continued with an explanation of the new federal interstate highway program in Kansas, stating that the standards for these roads are set up under the bureau of public roads, but that the individual designs are up to the particu-

lar state. Interstate Highway No. 70 will pass from Kansas City through Salina to the western border of the state into Colorado. Interstate Highway No. 35 will be built from Kansas City through Wichita to the Oklahoma border. Another interstate highway will be built connecting Nos. 70 and 35 from Wichita to Salina.

Some sections of this new system are already under construction in varying parts of the state, and the highways are expected to be completed within 13 to 16 years. The entire interstate highway effort throughout the United States is be-

ing planned and coordinated to reach completion at the same time.

The roads in Kansas are planned as 4-lane, divided roads, with more lanes in urban areas. Median strips are to be 60 feet wide, shoulders are to be stabilized and access roads will enter only at interchanges and important points. Most interchanges in Kansas will be of the diamond type, with a few cloverleaf-type interchanges at some of the points of heavier traffic.

All the interstate system right of way will be seeded. City areas and interchanges will be landscaped. Instead of roadside parks, there will

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311 FLATS, self-heading
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SHEARED SPECIMENS CAREFULLY GRADED

Berberis julianae, Belkville
selection, compact, more
handsome than old *julianae*.

| | |
|---|--------|
| 2000 12 ins., B&B, medium weight | \$1.25 |
| 500 15 ins., B&B, medium.. | 1.40 |
| 450 18 ins., B&B, heavy.... | 2.00 |
| 300 21 ins., B&B, heavy.... | 2.25 |
| 500 24 ins., B&B, heavy.... | 2.50 |
| 400 30 ins., B&B, heavy.... | 3.00 |

Pinus strobus, heavy, sheared
specimens.

| | |
|---------------------|------|
| 250 5 ft., B&B..... | 5.00 |
| 300 6 ft., B&B..... | 6.50 |
| 65 7 ft., B&B..... | 7.50 |

Tsuga canadensis, heavy, full-
graded specimens.

| | |
|---|------|
| 6000 2 ft. | 2.70 |
| 2400 2½ ft. | 3.15 |
| 1200 3 ft. | 3.60 |
| 200 3½ ft. | 4.20 |
| 4 ft. (10% of total Hemlock order) ... | 4.80 |

3% discount on 200 to one truck.
5% discount on 400 to one truck.

Ilex, conifers, shade and flower-
ing tree specimens in variety. Write
for complete list.

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Bristol, Tenn.

be constructed about 20 rest areas
or safety turnouts. Each of these will
occupy three acres of land, with one
section on either side of the new
road, at intervals of 25 to 40 miles.
They will be provided with parking
for both cars and trucks, picnic
tables, grills and water and toilet
facilities. These are merely rest areas
for motorists and are not intended
for park or local picnic areas.

Begin Tree-Saving Program

Mr. Virr stated that the total in-
terstate systems would encompass
41,000 miles of highway and cost
approximately \$37 billion. Kansas is
anxious to present a pleasing appear-
ance as well as a good road and has,
therefore, recently instituted the
tree-saving program to preserve all
existing trees, shrubs and natural
vegetation possible. This rule now
applies to all Kansas highways as
well as to the new interstate high-
ways.

Mr. Virr concluded his talk by
stating that the 1958 federal high-
way aid act made provisions for
control of billboards within 660 feet
of all interstate highways, but the
individual states must follow through
with legislation. States that can con-
trol advertising billboards will re-
ceive an additional 1½ per cent aid.
In Kansas this would total over a
million dollars. An antibillboard bill
pending in the recent session of the
Kansas legislature was not passed.

The next feature of the program
was a panel discussion on a viability
law for nursery stock in Kansas. The
panelists were Ralph Johnson and
Chet Calkins, Kansas state ento-
mological inspector. After consider-
able discussion, Mr. Calkins stated
that the policing of such a law is the
major problem. Not only is the con-
dition and vigor of nursery stock
important, but also the manner in
which it is stored, handled and sold.
The enforcement of any law such
as this would have to be handled
with care and would require public
education and professional under-
standing.

At the present time, Kansas has
no control over the situation except
insofar as the entomological bureau
may inform the dealer that he is
selling dead or dying nursery stock.
Most dealers will cooperate, but some
will not. It was pointed out that
good, reputable grocers will cull out
wilted heads of lettuce and stale
bread, but will continue to sell dead,
improperly handled and dying nurs-
ery stock. In other words, much
dealer education is to be recom-
mended.

The fair trade practices rules cover

SPECIMEN BROAD-LEAVED EVERGREENS

Shaped plants . . . beautifully
grown . . . in quantity.

Lucidum macrophyllum, dark
green, very hardy, 15 ins. to 5 ft.

Ilex crenata rotundifolia, extra-
hardy, 15 ins. to 4 ft.

Ilex cornuta burfordi, 15 ins. to
6 ft.

— Also —

Berberis julianae nana
Ilex opaca femina
Magnolia grandiflora
Osmanthus aquifolium

Write for prices or come and select
stock. Trailer delivery arranged.

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Hardy, well-grown, well-developed
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Finished stock for retail, 2 ft. and up.

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B&B sizes to trucks only.

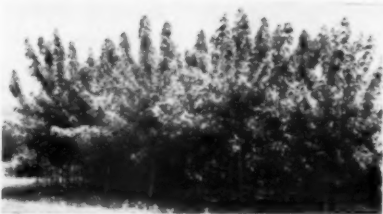
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10% DISCOUNT WHEN ORDERING 250 of ANY VARIETY



PINK-FLOWERING DOGWOOD

| | Each Per 10 | Each Per 100 | B&B Add |
|-----------------------|----------------|-----------------|------------|
| 3 to 4 ft., B.R. | \$2.25 | \$2.00 | \$0.50 |
| 4 to 5 ft., B.R. | 3.25 | 3.00 | .75 |
| 5 to 6 ft., B.R. | 4.25 | 4.00 | 1.00 |
| 6 to 7 ft., B.R. | 5.25 | 5.00 | 1.00 |
| 7 to 8 ft., B.R. | 6.25 | 6.00 | 1.00 |



SILVER MAPLE

| | Each Per 10 | Each Per 100 |
|--------------------------------------|----------------|-----------------|
| 6 to 8 ft. | \$1.00 | \$0.75 |
| 8 to 10 ft., 1 to 1¼-in. cal. | 1.25 | 1.00 |
| 8 to 10 ft., 1¼ to 1½-in. cal. | 1.50 | 1.25 |
| 10 to 12 ft., 1½ to 1¾-in. cal. | 1.75 | 1.50 |
| 10 to 12 ft., 1¾ to 2-in. cal. | 2.00 | 1.75 |
| 2 to 2½-in. cal. | 2.50 | 2.25 |



CHINESE ELM

| | Each Per 10 | Each Per 100 |
|--------------------------------------|----------------|-----------------|
| 6 to 8 ft., | 1.25 | 1.00 |
| 8 to 10 ft., 1 to 1¼-in. cal. | 1.50 | 1.25 |
| 8 to 10 ft., 1¼ to 1½-in. cal. | 1.75 | 1.50 |
| 10 to 12 ft., 1½ to 1¾-in. cal. | 2.00 | 1.75 |
| 10 to 12 ft., 1¾ to 2-in. cal. | 2.25 | 2.00 |
| 2 to 2½-in. cal. | 2.75 | 2.50 |

Write for complete list.

HAWKERSMITH & SONS NURSERY

Tullahoma, Tenn.

portions of this problem, but not enough to be effective. A good viability law in Kansas would be an effective weapon for the entomological inspectors, but it would not be 100 per cent enforceable without the co-operation of legitimate nurserymen. It was decided that the Kansas Association of Nurserymen would appoint a committee to study the existing laws of other states and provide a recommendation for 1959.

As the concluding item on the agenda, Martin Pashea, Independence, Mo., spoke on the "Rose Outlook for 1959." Mr. Pashea stated that the best way to sell roses or any other type of nursery stock is to sell quality stock, give all advice and service possible and emphasize related items, such as sprays and sprayers. Mr. Pashea gave a short history of his rose-selling operation at Independence and his experience in developing the Glendale rose garden at Kansas City. He further explained his storage and rose-potting procedures along with his techniques in handling leftover potted roses.

He cited Kordes Perfecta, Pink Peace and Lavender Girl as top roses for the 1959 season. Further recommendations were the 1959 A. A. R. S. winners Starfire and Ivory Fashion, and the new pillar rose Don Juan.

BERRIED BURFORD HOLLY

Heavily berried stock in 1 and 5-gal. cans — the quality of plants that will bring you additional sales this fall and Christmas—with a little wrapping this will make an appropriate Christmas promotion item.

1-gal., 12 to 15 ins., 60c regular; 70c berried
5-gal., 18 to 24 ins., \$2.00 regular; \$2.25 berried

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Company
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Your Profits Grow in Verhalen Plants

PLANT NOTES HERE AND THERE

By C. W. Wood

Woolly St. John's-Wort

Envisioning the silvered mat of woolly St.-John's-wort foliage serving as background for many 16-inch stems, each carrying an open panicle of primrose-yellow flowers (much softer yellow than the usual bright shade of a St.-John's-wort) from early June into September, gives some idea of what the plant could do for the summer garden, where it is hardy. What it would be able to stand in the way of cold will have to be found out by trial, for there are no published accounts on its behavior in America, so far as I can find out. It lived in my garden for several years (about five, as I remember it) and finally went in a cold winter of light snow. I saw the plant again a few years ago in a southern Ohio garden, where it had been growing for about 15 years. Perhaps the limy soil of that region had something to do with its longevity there, for I noticed in my trials that it did not seem to thrive in an acid soil. It should be an excellent item for local summer sales, where gardeners can see its beauty and long blooming season.

Yellow Day Lilies

Because the yellow day lilies are my favorites of all the color classes of those popular flowers, I am glad to give my opinion on a few of the better ones for a Kentucky reader and for many others who are interested in these really popular flowers. Despite the fad for red and bizarre combinations, yellow will probably continue to form the backbone of the *hemerocallis* trade for years to come; so it behooves the neighborhood grower to stock only the best.

I have long thought and still think that *Hyperion* is close to the best of the pale yellows. The fact that some of the specialists have discontinued it for more modern varieties does not alter that opinion at all. Its vigor and heavy production of large, delightfully fragrant, pale yellow flowers (citron-yellow, it is called by the experts), on tall (three feet or more) stems during much of July and August make it outstanding in every way.

Given light shade so they do not fade, Canari blooms are a beautiful canary-yellow and look well when given a dark background. The large

flowers have sufficient substance to make them stand rough treatment. Canari is also a July and August bloomer, growing to 40 inches, and has evergreen foliage. Capistrana, bright yellow, is another evergreen variety whose early flowering, vigorous growth to 40 inches and fragrant, evening-opening flowers endear it to most gardeners. Although I have not seen Gold Strike, I think it safe to say, considering its origin, that it will bear watching. It is said to have extra-large, deep, pure yellow flowers of great substance.

After gardeners learn about the prodigious production of its large, fluted, clear yellow flowers, the strong-growing (three feet) Mission

Bells is likely to be among the most popular of the clear yellow varieties. One grower reported more than 50 blooms on a single stalk. Although Mrs. B. F. Bonner has been known for some time, it seems to have escaped the notice of many gardeners. It is one of Russell's good yellows, of strong constitution, growing just under three feet, with wide-petaled, full-flowered, pale yellow blooms in midseason. Ordinarily it is a rebloomer, adding to its value.

Most gardeners would be pleased with the 6-inch, or larger, flowers of Goliath even if its color were less pleasing than its actual deep yellow. Its prodigious flower production makes it something special. Although

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| 9 to 12 ins. | | \$250.00 |
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the list is now overlong, I should like to include one more day lily, Shooting Star, a lovely pale creamy-yellow, full-petaled beauty of good substance and excellent performance. The plant, although now too expensive for general distribution, holds much for the future.

Mentzelia Decapetala

I suppose that it is expecting too much to hope that *Mentzelia decapetala* will ever be widely popular. Yet, its only real handicap is that it is monocarpic, and gardeners do not allow that factor to keep them from enjoying monocarps like Canterbury

bells, lunaria and many others. Perhaps the absence of the *mentzelia* from gardens can be traced to the fact that gardeners do not know the plant exists. It is true, of course, that less showy plants of this class are often grown by gardeners, and one cannot tell how his customers will react to any plant until it has been presented to them or until some time has been allowed for them to observe the plant. Thus, years ago we grew and sold quantities of two kinds, *M. decapetala* and *M. nuda*, not one year but year after year to the same customers, who were impressed by their spectacular beauty,

but did not care to go to the trouble of growing replacements.

In my opinion, the first of these is much the better plant and one is well advised, I think, when he is told to choose *M. decapetala* if only one kind is to be grown. It has creamy-white flowers as much as five inches across. Studded with hundreds of prominent stamens which someone who had the patience to count said numbered more than 300, the flower gives the general impression of a water lily. It is at home in dry, sandy soil, though it probably does not need sand. It will grow there from 15 to 20 inches, while more

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| White Dogwood | |
| 2-yr., S., 36 to 42 ins., br. | 12.00 |
| 2-yr., S., 30 to 36 ins., br. | 10.00 |
| 2-yr., S., 24 to 30 ins., br. | 8.00 |
| 2-yr., S., 18 to 24 ins., br. | 5.00 |

| | Per 100 |
|--|---------|
| Pink Dogwood | |
| 1-yr., 18 to 24 ins. | \$45.00 |
| 1-yr., 24 to 30 ins. | 60.00 |
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| 3-yr., T., 3 to 4 ft., heavy | 20.00 |
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| Common Purple Lilac | |
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| Silver Maple | |
| 1-yr., T., 5 to 6 ft., br. | 25.00 |
| Althaea | |
| S., T., 3 to 4 ft. | 20.00 |
| Creeping Phlox, pink | |
| 30-in. clump, \$1.00 each | |
| Spiraea vanhouttei | |
| 2-yr., T., 2 to 3 ft. | 20.00 |

For those who wish stock individually root-wrapped with waterproof paper and moisture-retaining material including colored picture tag and planting instruction, the cost for this service is: 18 to 24 ins., 12¢ each; 24 to 30 ins., 14¢ each; 30 to 36 ins., 16¢ each.

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fertility and moisture may double these figures, it is said. It is grown from seeds with ease, but is not moved readily because of its long taproot.

The best way we found to grow mentzelias for sale was in 4 to 5-inch rose pots, selling them when they were about 3 months old, in early summer while the show plants were in bloom. That made a quick turnover and repeat sales every summer to those who were enthusiastic enough about their beauty to replace the plants yearly.

Lettuce Notes

While recently going over my 1940 notebook, I found a note on *Lactuca lessertiana* which gives me a good point for departure on a few remarks on the genus in general.

Although close to 200 species of *lactuca* are accounted for in the books, few, except for garden lettuce, *L. sativa* and its forms, are known to gardeners in general. In fact about the only one I find in gardens or in my correspondence is the southern European, *L. perennis*, a blue-flowered, summer-blooming, 2-foot perennial of value as a cover plant for spring-flowering bulbs which disappear before the lettuce has made much growth. Although it is tender here in northern Michigan, another southern European plant, *L. plumieri*, would be useful where hardy (perhaps south of the latitude of Chicago).

L. plumieri is a stately grower to six feet, with much-cut leaves, blue beneath, and blue-purple flowers in terminal heads. There are many other *lactuca* species, mostly weedy plants. In fact, any unknown lettuce should be looked upon as a weed until it proves itself otherwise. One that will do just that is the Himalayan *L. lessertiana*, found at 8,000 feet and higher in the southern Himalayas, especially in Kashmir, where it is said to grow at an elevation of 15,000 feet. It grows a foot tall, making a branched clump of variable leaves (without any apparent reason for the variability), entire or pinnately lobed, and large heads of a lovely shade of blue in late summer.

My note says it bloomed profusely in August, continuing well into September. That late blooming habit would in itself make it a worthy garden plant. It grew here without trouble when not allowed to dry out in August heat and was fairly hardy.

I should like to add one more, *L. bourgaei*, for those looking for a 3-foot, bushy plant of pleasing appearance to be used to cover unsightly

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places. As it grew in our trials, it got about half of the six feet assigned it in "Hortus," with thick stems set in bristly leaves, and studded up and down the stems with pretty, soft blue flowers. The lettuce comes readily from seeds and grow in ordinary soil without much bother.

Three Rock Garden Plants

I shall answer the request of an Illinois reader who asks that I name the three best rock garden plants to suit a set of conditions which I shall name later. I am glad that he named these special conditions, because it makes my task easier. His first restriction was that the plants should be easy to grow and easy to propagate in a neighborhood nursery without special equipment. Then, he said, they must be easy to grow in the midwest and be readily available. With these factors in mind, I shall advance the small phloxes, veronicas and thymes as my candidates for the role. Let me hasten to add, however, that they are not necessarily the ones I should choose for myself.

There are so many named forms of Phlox subulata and the other subulate species and their hybrids and there is so much confusion in the garden names that it probably



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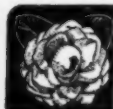
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would be useless to try to enumerate them here. The best way that I know to get the cream of the crop is to visit a modern collection and make your purchases direct. In lieu of that, buy colors by mail on the recommendation of a reliable specialist in the field.

The names in veronicas are also so badly confused that it is much of a gamble to buy by name. I shall, however, try to point out two or three kinds that you should look for. The plant known to gardeners as *V. rupestris*, should be called *V. latifolia*, according to botanists. It may also be called *V. elatior* or, as Farrer has it: "*V. Teucrium* is *V. prostrata* of Smith's *Prodromus* (not of Linnaeus), and has given both to that most superb of garden speedwells, the thing sent out as '*V. rupestris*', and better to be known as *V. T. dubia*—". The main thing is to get a plant that answers this description, which I take from Mrs. Wilder: "A prostrate trailer, with small, dark, narrow foliage and masses of little spires crowded to their utmost capacity with brilliant blue blossoms toward the end of May." It is one of the loveliest of the small speedwells of easy culture, but one that has to be watched when it is put close to delicate plants, for it will smother them by its vigorous rambling.

Although the sophisticates may look upon *V. gentianoides* as too plebeian for their notice, it should exactly suit the inquirer's needs, as it always did mine, with mats of pretty, shining leaves and foot-tall stems bearing long racemes of milk-white (palest of blues) flowers early in the season. It does well in sun or light shade (preferably the latter, I think). For a third speedwell to fit into the inquirer's schedule, I should like to suggest *V. incana*, not only for its ease of culture in any sunny, well-drained situation, but also for its silvery-gray foliage and a blooming period that falls in early summer. In the type, the 6-inch stems carry a raceme of deep blue flowers, and in a form called *rosea*, which, incidentally, lacks much of the white pubescence of the parent, the flowers are rose-pink.

My third choice, the thymes, can be disposed of in a few words. Almost any creeping kind found in nurseries will answer the call for a good, easy, rock garden ornament. Without going into details to outline the reasons, I personally would choose these forms of *T. serpyllum*: *Albus*, *argenteus*, *lanuginosus* and *splendens*. The thymes are all fine garden plants.

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DEDICATE ROSE GARDEN

The new Dean Bond rose garden, at Swarthmore College, Swarthmore, Pa., was dedicated last month in ceremonies held on the college campus. Created in memory of Elizabeth Powell Bond, dean of the college from 1890 to 1906, the garden was made possible by a bequest of the late Robert Pyle, president of the Conard-Pyle Co., West Grove, Pa., and an alumnus of Swarthmore.

Approximately 1,000 plants of more than 200 rose varieties are contained in the garden. Assorted climbing roses are supported from a chain strung on 20 8-foot poles sunk into the ground. Including old-fashioned roses and wild species, the plants were chosen with the educational aim of displaying some of the breadth and variety in the rose family.

Present at the dedication ceremonies were officers of the Conard-Pyle Co. and representatives of the college and of many horticultural institutions and associations. Speakers included Dr. Courtney Smith, president of the college, and John Wister, director of the Arthur Hoyt Scott horticultural foundation and one of the designers of the garden.

TEXAS OFFICER RESIGNS

George M. Fisher, Arp Roses, Inc., Tyler, Tex., resigned early last month as secretary-treasurer of the Texas Landscape Association. Though he will continue as chairman of the T. L. A. publicity committee, Mr. Fisher plans to take a 10-month leave of absence from the Arp firm in order to complete studies for a master's degree in landscape architecture at Kansas State College, Manhattan.

Another secretary-treasurer will be appointed to serve the remainder of Mr. Fisher's term. Until the appointment is made, association files will be in the custody of Ray Breedlove, Breedlove Nurseries, Tyler, who will also handle the correspondence duties of the secretary-treasurer's office temporarily.

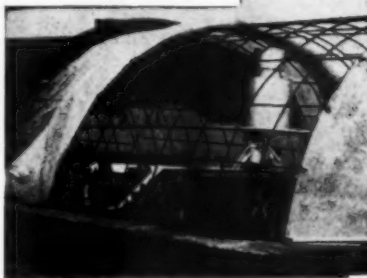
ARKANSAS CONVENTION

[Continued from page 15]

house is excellent. Mr. Ball recommended the double funnel method for determining the correct height and placement of foundation plants. In this method, imaginary lines are drawn from the center of the front stoop to the sides of the house, crossing the sides of the house at a point approximately one-half the distance from the ground to the eaves. Foun-

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Berberis Crimson Pigmy—Light, BG, liners, 18 mo. old, branched to fairly bushy, 5 to 7 ins., 18c; heavy, BG, liners, 6 to 9 ins., bushy, 25c; field-grown, 3-yr., heavy, 8 to 12 ins., 50c.

Berberis julianae—The hardiest evergreen barberry—cuttings rooted July 57 and kept cutback, very heavy, 7 to 9 ins., 12c; our usual big rooted cuttings, Aug. 58, 9c.

Berberis julianae nana—Compact growth, darker green leaf, often called "BPI"—**RC**, Aug. 58, 10c.

Berberis mentorensis—Cuttings rooted July 57 and kept cut back, big enough to go directly to the field, 8 to 10 ins., 10c; our usual big **RC**, Aug. 58, 7c.

Buxus sempervirens (Boxwood)—An excellent, bushy strain—cuttings rooted Sept. 57 and kept cut back, 4 to 6 ins., beginning to bush out, 10c.

Chaenomeles (Flowering Quince)—Both on own root from softwood cuttings. No suckering from these plants.

Nivalis—The best of the white-flowering quinces—BG, liners, 6 to 12 ins., 18c; 12 to 18 ins., 24c.

Texas Scarlet—The best for canning because of the profuse red flowers on a compact low plant—BG, liners, 6 to 12 ins., 20c.

Cherry Laurel—See *Prunus*.
Cydonia—See *Chaenomeles*.

Elaeagnus ebbingei—New, from Dutch plants. The best we have seen. More upright and attractive than fruitlandi—**RC**, June 58, 20c.

Euonymus alatus compactus—**RC**, June 58, 8c.

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Ginkgo biloba—From cuttings—all from one magnificent male tree—BG, 6 to 12 ins., 50c; 12 to 24 ins., 75c; under 6 ins., 35c.

Ilex cornuta burfordi—**RC**, heavy, 6 to 12 leaves, 8c. Not ready until spring.

Ilex crenata convexa—Cuttings rooted July 57 and kept cut back, beginning to branch well, heavy, **RC**, 9c; our usual grade, **RC**, Aug. 58, 7c. Not ready until spring.

Ilex crenata hetzi—Large **RC**, Aug. 58, 7c.

Ilex crenata rotundifolia—Cuttings rooted Aug. 57, kept cut back, branched, exceptionally heavy, **RC**, 9c; our usual large **RC**, Aug. 58, 7c.

Ilex opaca (American Holly)—Northern types, no southern hybrids. Guaranteed female and guaranteed male from cuttings—BG, liners, 4 to 6 ins., 17½c; 6 to 10 ins., 25c; 10 to 15 ins., 35c; for canning in gallon cans, mostly single stem, some lightly branched, BG, liners, 15 to 30 ins., 50c.

Ilex opaca shipped only on March 1, 1959 (because that is the very best time to move American Holly).

Magnolia grandiflora—Seedlings, stocky, from well-spaced outdoor beds, 4 to 6 ins. and up, 8c.

Prunus caroliniana (Southern Cherry Laurel)—Seedlings, sheared to keep them bushy, 8 to 12 ins., 8c.

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Prunus laurocerasus schipkaensis (Cherry Laurel)—Cuttings rooted July 57, kept cutback, light bed-grown liners, big enough for field, 8 to 10 ins., 20c; **RC**, very large and heavy, Aug. 58, 10c.

Prunus laurocerasus zabeliana (Cherry Laurel)—Spreading, usually considered the hardiest—**RC**, Aug. 58, 12c.

Prunus laurocerasus macrophyllum (Cherry Laurel)—Certainly the prettiest and seems to be even hardier than zabeliana. Large leaves, very dark green—**RC**, Aug. 58, 20c.

Prunus laurocerasus officinalis (English Laurel)—Not hardy north—**RC**, Aug. 58, 10c.

Thuja orientalis aurea nana (Breckmann Golden Arborvitae)—**RC**, Feb. 57, growing in soil ever since. About right for a 2½ or 3-in. pot, 10c; BG, transplants, 8 to 12 ins., 25c.

Viburnums—All are on their own roots from softwood cuttings.

Viburnum carlesii—**RC**, June 58, 15c; BG, liners, single stem to lightly branched, 18 to 24 ins., 30c.

Viburnum chinensis—More shapely and attractive than burkwoodi—**RC**, June 58, 15c.

Viburnum juddi—Better than carlesii. A more compact plant with more attractive leaves. Not subject to leaf spot. Flowers really pink—**RC**, June 58, 15c.

Viburnum macrocephalum sterile (Chinese Snowball)—Dazzling white snowballs often 8 to 9 ins. in diameter. In polyethylene plant bands, same amount of soil as a 3-in. pot. On own roots since it is not fully compatible if grafted. 65c each.

Viburnum rhytidophyloides—Hybrid between *V. rhytidophyllum* and *V. lantana*—very similar to *rhytidophyllum* but is harder **RC**, July 58, 15c.

Viburnum rhytidophyllum (Leather-leaved Viburnum)—**RC**, July 58, 12c.

Viburnum tomentosum mariesi—Sorry, sold out for this year.

Viburnum tomentosum plicatum grandiflora (Japanese Snowball)—Has larger snowballs than the regular *plicatum*—**RC**, July 58, 20c.

We are conducting an interesting experiment with about 60,000 plants in 2x2x4-in. polyethylene plant bands. Using University of California "Mix C", half sand—half peat and liquid fertilizer through a Smith Measure-Mix proportioner. In a new type of semicircular shade house—greenhouse. Why not stop by to see it?

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dation plants used along the front of the house should not exceed the height indicated by these lines. A second funnel is created along the ground line, the tall corner plants being placed farther from the house than the doorway plantings. This eliminates overplanting the foundation and draws attention to the front door. He stated that more and more broad-leaved evergreens are being used in foundation plantings.

For tall, narrow buildings, corner plantings should be extended to the side (wing plantings) to make the house appear wider. Tall trees will also serve to reduce the visual height of the building.

When wrap-around windows are used at the corner of a house, they can be planted effectively with one small tree placed eight to 10 feet diagonally from the corner. Mr. Ball also stated that a patio should be constructed so that sufficient planting space remains between it and the foundation. Vines on fences are effective patio plantings.

Propagation Discussed

Dr. Tokuji Furuta, department of horticulture, Alabama Polytechnic Institute, Auburn, speaking on plant propagation, said that advance planting is important for the nurseryman in determining his propagation requirements. Many small nurseries may find it more profitable to purchase liners or rooted cuttings. A nurseryman should propagate only the number of plants for which he anticipates sales in three or more years when the plant is of landscape size. Critical examination of the variety list is also of utmost importance. If one's customers are interested only in a red-flowered azalea, there is not much point in growing three or four varieties of red-flowered azaleas and chancing a mix-up in varieties.

The basic principles in propagation apply, whatever the number of cuttings propagated. But each nurseryman should be curious and alert enough to take new techniques into consideration and determine whether they might fit into his operation with modification.

Automation in the nursery industry is approaching and will be relatively inexpensive, simple to install and simple to use. Mist propagation is a step in this direction.

In tests at Auburn, Dr. Furuta reported, it was found that rooting of Malling No. 7 rootstock is equally good under either electronic leaf or intermittent mist systems. An average of 42 per cent of the cuttings rooted. Early May cuttings rooted

better than late May cuttings. This was also true of *Malus atrosanguinea* and *Malus halliana parkmani* cuttings.

Aeration in the rooting medium and air circulation around the cuttings must not be neglected. Many growers tend to inhibit air movement around the cuttings in their attempts to control wind drift of the mist, he stated. The medium should fill the container to the top, and the container should be raised off the ground on a screen that allows air to move under it, he added.

Plant Board Activities

Carter Seymour, Arkansas state plant board, reviewed the relationship of the board to the industry and explained the functioning of the plant board. At present there are four quarantines in effect in Arkansas, he stated, to combat phony disease of peach, peach mosaic, imported fire ant and Texas root rot. Progress has been made in eradicating phony disease, peach mosaic and imported fire ant. Mr. Seymour reported that in a survey of outlets in March, 1958, it was found that 26 per cent of all waxed rosebushes offered for sale were dead. The use of green wax prevented determination of the condition of the plant. Many factors influence the shelf life and vitality of the rose, he stated, and much research is needed in the field.

According to Mr. Seymour, the basic needs of the nursery industry in Arkansas are good land selection, a good rotation system, good sources of liner stock, a good spray schedule and nation-wide cooperation in the industry to obtain uniform inspection laws of nursery stock in all states.

September 6, Gene Grazier, California Spray-Chemical Corp., Richmond, Calif., showed the movie "Solid Gold," and Dr. V. M. Watts, head of the department of horticulture, University of Arkansas, Fayetteville, reviewed the relationship between the university and the nursery industry in the state. An increase in research on nursery problems is now planned, he stated, through the addition of one man to the staff. The discussions closed with color slides of native deciduous azaleas found in the mountains of Arkansas.


JOHN SPOONER has opened Spooners Floral & Nursery, Route 1, Morenci, Mich.

RE-ENTERING the trade is Thomas A. Grainger, who recently opened a nursery at 2741 Southwest 14th street, Miami, Fla.

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LOS ANGELES CHAPTER

A regular meeting of the Los Angeles chapter, California Association of Nurserymen, was held August 27 at Eaton's Santa Anita restaurant, Arcadia. There were 81 members and guests present when the meeting was called to order at 9 p. m. by President Norman A. Springer, Bandini Fertilizer Co., Los Angeles.

The results of the election of officers and directors for the coming year were as follows: Harold Botts, Botts Nursery, Anaheim, president; Chuck Vogels, Chuck's Nursery, Covina, vice-president; Dick Meadows, Meadows Bros., Altadena, secretary, and Robert Bartholomew, Hi-Mark Nursery, Inc., Santa Ana, treasurer. The seven board members are Otto Martens, Deigaard Nurseries, Monrovia; Peter Dunn, Buena Park Greenhouses, La Habra; Neil Campbell, Better Gardens, San Marino; Carl Zanger; Ed Lowell, Sierra Growers, Sierra Madre; Wilbur Korsmeier, Town & Country Nursery, Whittier, and Al Kailen. Directors at large are the outgoing president, Norman Springer, and Charles Crum, Rosedale's Nurseries, Inc., Monrovia.

Among the guests introduced were Richard Wescott, Paul J. Howard's California Flowerland, Los Angeles, president-elect of the Sunset chapter; Henry Graef, the chapter's current president, and Joseph Burger, keynote speaker at the recent Texas Association of Nurserymen convention. The tables were decorated with hibiscus blooms, provided by the Monrovia Nursery Co., Azusa, and arranged by Jack Lane, of the nursery staff, and his assistants.

Otto Martens was in charge of the plant forum and showed the new marigolds developed by Paul J. Howard's California Flowerland. They were later presented to Mrs. Anderson, wife of the guest speaker. Jack Lane introduced several new plants recently developed.

Program Chairman Harold Botts then introduced the guest speaker of the evening, R. C. Anderson, vice-president of the Los Angeles better business bureau. He explained the working of the bureau and how it can help in the nursery industry. The

bureau has no punitive powers and is purely voluntary, being formed and supported by business people.

The Los Angeles office handles 60,000 requests for service a year. There are two classes of complaints, consumer and competitive, such as are common in the nursery industry. If a formal complaint is filed, the bureau will look into the case. Mr. Anderson concluded his presentation with a film entitled "The Better Business Bureau Story."

It was agreed that the Los Angeles chapter should appoint a committee to meet with the better business bureau to discuss some of the present problems concerning unethical advertising and sales promotions and procedures within the local nursery industry. The meeting was closed with the notation that there would be no September meeting because of the state convention at Palo Alto.

Dick Meadows, Sec'y.

SAN DIEGO CHAPTER

The San Diego chapter of the California Association of Nurserymen elected its 1959 officers August 28 at a dinner at the Park Manor hotel, San Diego. A unanimous ballot was cast for the selections of the nominating committee, which was composed of Frank Dawson, Dawson's Nursery & Landscape, Chula Vista; George James, and Craig Smith. The 1959 officers are Phillip Seeman, Seeman's Nursery, San Diego, president; Moto Asakawa, vice-president; Ada Perry, secretary, and Craig Smith, treasurer.

Directors are Walter Andersen, Walter Andersen Nursery, San Diego, and Ed Harrisburg, Germain's, San Diego, re-elected; Mrs. R. C. Jensen; George James and Ernest Otto, re-elected state directors, and Frank Dawson and Alfred F. Antonicelli, Washington Street Nursery, San Diego, serving their second year. Mrs. R. C. Jensen, group advertising chairman, reported that all but four of the approximately 30 retailers in the chapter will join in the co-operative advertising venture to begin this fall. The members voted to allow wholesalers to participate also.

At an earlier meeting of the chap-

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ter's board of directors, held August 15 at the home of Moto Asakawa, San Diego, Phillip Seeman presided in the absence of President Charles Dibb, F. W. James & Son, National City, who was vacationing. Board members present, besides Mr. Seeman and Mr. Asakawa, were Craig Smith, Alfred F. Antonicelli, Fred Otto and Ada Perry.

The secretary was instructed to acknowledge the receipt of the agenda for the September 15 state board of directors' meeting from the state office and to send in the following item to be added to the agenda: Information on new plant material should be released to the trade in the monthly bulletin before it is offered by the plant salesmen. The secretary was also instructed to write to Executive Secretary Elmer Merz regarding an installation date in October that will be suitable for all concerned. After Treasurer Craig Smith reported a satisfactory return from the recent county fair work, the meeting was adjourned and refreshments were served.

Ada Perry, Sec'y.

CENTINELA CHAPTER

New officers of the Centinela chapter, California Association of Nurserymen, were elected at the August meeting, held at Haji Baba's cafe, Inglewood, as follows: President, Reginald Whitney, Ladera Garden Shop, Lomita; vice-president, Keiji Yata, Yata Nursery, Torrance; secretary, Kenneth Terry, Hawthorne Nursery, Hawthorne, and treasurer, Eizow Etow, Etow's 101 Nursery, Redondo Beach. Directors are Ikeru Matsumoto; Kik Matsuyama; Frank Kamada; William McGraw, W. J. McGraw Nursery & Florist, Lomita, and Gus Ditzel.

Earlier in the evening, the meeting was called to order by President George Schmidt, Frontier Nursery, Redondo Beach. Reginald Whitney then introduced the guest speaker, John Baird, Southern California Gas Co. A polished speaker, Mr. Baird gave a humorous talk on interesting side lights of the natural gas industry.

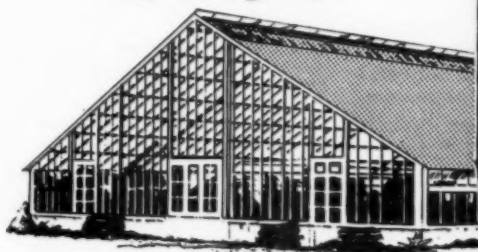
President Schmidt announced that the board of directors had nominated James C. Perry, Perry's Plants, Montebello, to receive the annual P. C. N. award for the greatest contribution to the nursery industry during the year. The members unanimously approved Mr. Perry as the chapter's nominee for the award. After announcing that Richard Oehlman, Ladera Garden Shop, would remain as state director for another year,

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President Schmidt introduced the business of elections by reading the chapter's constitution and bylaws concerning terms of office and other requirements. Officers were then nominated and elected as reported earlier.

Special prizes, donated by Bo Packard, Capel-Klang Co., San Francisco, and Frank Kamada, were won by Joseph Beeler, Beeler Bros. Nursery, Inglewood, and Betty Obert, secretary to Pressley Jones. The next regular meeting, featuring installation of officers, was scheduled for September 25 at the Palms, Torrance. Bo Packard, Sec'y.

MONTEREY BAY CHAPTER

The August meeting of the Monterey Bay chapter, California Association of Nurserymen, was the annual barbecue at Bolado park. Special prizes, donated by Douglas Bishop, Pine View Nursery, Pacific Grove, and Bruce Stone, E. B. Stone & Son, Salinas, were won by Helen Antonelli, Antonelli Bros., Santa Cruz, and Mrs. Antonelli's mother.

Bruce Douglass, Douglass Nursery, Santa Cruz, chairman of the nominating committee, presented the following nominations for 1959 officers: President, Bruce Stone; vice-president, Marvin Sloan, Sloan's Nursery, Santa Cruz; secretary, Clayton Pleiman, Tempo's Landscape & Garden Service, Pacific Grove; treasurer, George Uyeda, Watson's Nursery, Pacific Grove, and new director, Jack Neilson, Bokay Nursery, Salinas. Louis Olave, Hollister Garden Shop, Hollister, as past president, will be an ex officio member of the board.

It was moved and seconded that the nominations be closed and approved as read. Before the meeting adjourned, Clayton Pleiman was placed in charge of the September meeting at Biff's, Seaside.

Joanne Nishi, Sec'y.

PENINSULA CHAPTER

At the September meeting of the Peninsula chapter, California Association of Nurserymen, held at Sabella's restaurant, Sunnyvale, each of six past presidents was awarded a beautiful plaque for his work in guiding Peninsula chapter from its birth in 1951 to its present high status in the organization.

Those receiving the awards, in chronological order, were J. H. Wilson, Peters & Wilson Nursery, Millbrae, 1951-52; J. E. Edwards, John E. Edwards Nursery, Palo Alto, 1952-53; E. Esch, Esch Nursery, San

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Jose, 1953-54; W. E. Schmidt, Schmidt Nursery, Palo Alto, 1954-55; W. C. Borchers, W. B. Clarke & Co., San Jose, 1955-56, and J. E. Coulter, Coulter's Nursery, San Carlos, 1956-57. The awards were made by the visiting state president, Willis Stribling. Ernest Esch was the only past president who was unable to attend.

Iva Newman and Clyde Stocking, Stocking Rose Nursery, San Jose, gave an evaluation of the latest roses and showed some beautiful red and white varieties. Convention Chairman Bill Schmidt, Schmidt Nursery, Palo Alto, reported that all was in readiness for the C. A. N. convention and that the many committee members had formulated lavish plans to insure an enjoyable and profitable time for all who attend.

Don McKalson, California Spray-Chemical Co., was the host for this meeting and introduced the many guests present. There were approximately 70 persons at the meeting.

R. S. Dunton, Sec'y.

TRI-COUNTY CHAPTER

The regular meeting of the Tri-County chapter, California Association of Nurserymen, was held August 22 at the Barbara hotel, Santa

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Barbara. Guests for the evening were members of the Tri-County chapter of the Landscape Contractors' Association. Among the guests introduced were Les Hanson, president of the contractors' association, and Jack Wick, C. A. N. assistant executive secretary.

Ernest Days, Days' Garden Nursery, Santa Barbara, who was recently appointed a city councilman, was present with his wife. Bert Kallman introduced Tony Days, his new manager of the Cliff Drive branch of Kallman's Garden Nursery, Santa Barbara, who was accompanied by Mrs. Days.

James Perry, C. A. N. vice-president, was also present and announced that Tri-County chapter has ac-

quired its quota of new members, as stated by President Willis Stribling. After Pressley Jones reported that the association's insurance carriers paid a million dollars in claims recently, Bert Kallman was appointed to take the place of Dr. Carl B. Wolf, La Cienega Nursery, Fillmore, as chapter director at the state convention. Roy F. Wilcox, Roy F. Wilcox & Co., Santa Barbara, was nominated for this year's Pacific Coast Nurseryman award, and a brief resume of his career was read.

As the final business of the meeting, the September C. A. N. convention was discussed, and some of the proposed bylaw changes were read. Colored slides of cacti and other succulents were then shown in a pro-

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CALIFORNIA FAIR

At the California state fair and exhibition held at Sacramento August 27 to September 7 nurserymen participated extensively in setting up displays and making entries in the special flower classes. Judging of cut flower entries was conducted daily throughout the show period. Among trade firms and organizations which received prizes the opening day were the following:

The Superior chapter of the California Association of Nurserymen, Sacramento, placed second for an outdoor exhibit by an association, in a commercial division. Orchard Nursery & Florist, Lafayette, and Sutter Nursery & Florist, Sacramento, placed first and second, respectively, for an exhibit by a retail florist or nursery.

Special awards were presented to Kato's Nursery, Sacramento, for the best exhibit in an outdoor area, and to Lyal Nikals, San Leandro, for the best exhibit in an inside area.

Garden Displays

In a class for outdoor gardens staged by professionals, four types of plantings were called for. Prize-winners for a patio design showing the influence of early Spanish settlers were Capital Nursery Co., Sacramento, first, and Jack Anderson, Landscaping, Sacramento, second.

For a modern terrace design, with steps in flowing lines, Houck & Johnson, Citrus Heights, were first; Corner Nursery, Rio Linda, second, and Miller Nurseries, North Sacramento, third.

Kato's Nursery, Sacramento; Lemon Hill Nursery, Sacramento, and Matsuda's Garden Center, Perkins, placed first, second and third, for a garden room for relaxation within a garden.

Winners in a class for a garden design in the latest school of thought were East Lawn Nursery, Sacramento, first; California Association of Landscape Contractors, Sacramento, second, and East Bay Nursery, third.

Lyal Nikals was first on kentia palms and a collection of not less than four varieties of palms. Orchard Nursery & Florist were first on saint-paulias.

In the classes for chrysanthemums, the chief winners were Kumagai Nursery, Palo Alto; R. S. Yamane, East Palo Alto; Jim Matsumoto, Mountain View; Kay's Nursery,

Redwood City, and Nakai Nursery, East Palo Alto.

The Chrysanthemum Growers Association, Redwood City, was first, and R. S. Yamane, second, for a display of chrysanthemums by a grower. The Bonsai Society was first for a display of bonsai plants.

Orchard Nursery & Florist took the first prize for a display of tropical blooms, and East Bay Nursery, Berkeley, was third.

For dahlias, Walkup's Nursery, Berkeley, placed first, with Mrs. Walter Benson, Berkeley, second, and Charles Kurz, Piedmont, third.

CALIFORNIA NOTES

Hudson Black, who calls on the trade for Schmeidel & Co., San Francisco, is recovering slowly at home after several weeks' hospitalization following abdominal surgery.

Horace M. Turet, San Francisco fuchsia hybridizer, was guest speaker at the September 2 meeting of the Santa Clara County Fuchsia Society meeting.

James Holtz, who has won several prizes in past years as a 4-H entrant at the California state fair at Sacramento, has an entry again this year. The 13-year-old eighth-grader in the Mount View schools is a son of Mrs. Charles Holtz, manager of the Greenleaf Nursery, Mount View.

The Oakland park department and the San Leandro Dahlia Society co-sponsored a Dahlia day in the Lakeside park, Oakland, August 24. Dahlia enthusiasts from several of the bay area counties spent the day in taking notes and pictures of the better kinds.

The American Fuchsia Society, Perata branch, conducted a bus tour to the Abels Fuchsia Gardens, Occidental, en route to the large fuchsia show at Sebastopol.

Pat Antonelli, one of the three brothers who operate the Antonelli Nursery, Santa Cruz, spoke on tuberous begonias at the August 26 meeting of the Los Altos Garden Club. The Antonelli Nursery occupies about 15 acres in the Santa Cruz area and grows only tuberous-rooted begonias, fuchsias, ferns, gloxinias and other shade-loving plants. The firm has developed many new kinds of begonias and other flowering plants used by home gardeners.

James Kerr, Kerr Seeds, San Mateo, and television garden specialist and speaker, has been elected vice-president and program director of the San Mateo county garden center. The group is composed of the officers or delegates of the county.

[Continued on page 101]

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Forms for November 15 issue will close Friday, October 24.

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|--|-------------|-------------|
| (EACH) | (EACH) | (EACH) |
| Fedora, 3-yr., TT |\$1.00 | |
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| TT, from beds |1.00 | |
| Kaempferi (seedlings), 4-yr., TT |75 | |
| *Mollis (orange-red), (very hardy strain), 4-yr., T, from beds |50 |\$0.45 |
| *Mollis (yellow) (very hardy strain), 4-yr., T, from beds |50 |45 |
| Sherwood Red, 3-yr., T, from beds |1.00 |90 |

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| 15 to 18 ins., B&B |3.00 |2.50 | |
| 18 to 21 ins., B&B |4.00 |3.50 | |
| 21 to 24 ins., B&B |5.00 |4.50 | |
| 24 to 28 ins., B&B |6.00 |5.50 | |
| 28 to 32 ins., B&B |7.00 |6.50 | |

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Barberry liners, Crimson Pigmy, julianae,
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List your offerings in the
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| (Atropurpurea) 4-yr. transplants. | Per 100 | Per 1000 |
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| Heavy stock. |\$24.00 |\$200.00 |
| 9 to 12 ins. |28.00 |240.00 |
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Place your orders now for fall or next
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The new Durham Everbearing and off
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ber Everbearing.

Prices on Durham, up to 3/16-in., \$55.00
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Earli-Red, Muskoka, Latham, Gatineau
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New Amber yellow Raspberry, very sweet;
medium size, \$70.00 per 1000; large, 1/2-in.
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All above priced F.O.B. No charge for
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Ready October 15. Well-packed.

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DARWIN TULIPS, first size, 11 to 12 cm.,
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PARROT TULIPS, 7 1/2c each.

Blue Parrot (blue), Orange Favorite (or-
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King of the Blues, King of the Whites.

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10c each.

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| | 10 to 50 | 50 to 100 | 100 up |
|---|-------------|-------------|-------------|
| Each | Each | Each | Each |
| 4-yr., T, 6 to 8 ins., puddled roots |\$0.65 |\$0.60 |\$0.50 |
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| 15 to 18 ins., B&B, specimens |2.10 |2.00 |1.85 |
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| 5-yr., T, 4 to 6 ins., puddled roots |65 |60 |50 |
| 6-yr., T, 6 to 8 ins., puddled roots |90 |80 |70 |
| 8 to 10 ins., B&B, specimens |1.35 |1.25 |1.15 |
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| 20,000 1-yr., 8 to 12 ins. | \$ 4.50 | \$ 35.00 |
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| 4 1/2 to 5 ft. B&B | 275.00 | |
| 5 to 6 ft., B&B | 325.00 | |

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EVERGREEN LINERS AND CUTTINGS
POT-GROWN STOCK

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| 2-yr., 7 to 9 ins. | \$0.30 | \$0.28 |
| pyramidal, 2-yr., 7 to 9 ins. | .. | .. |
| Juniperus pfitzeriana, Armstrong's, | .. | .. |
| 2-yr. | .. | .. |
| Juniperus chinensis pfitzeriana, | .. | .. |
| 2-yr. pots, 6 to 9 ins. | .. | .. |
| Juniperus glauca hetzi, 2-yr., | .. | .. |
| 7 to 9 ins. | .. | .. |
| Taxus hatfieldi, 2-yr., 5 to 6 ins. | .. | .. |
| Taxus intermedia, 2-yr., 5 to 6 ins. | .. | .. |
| Taxus canadensis, Adams', 2-yr., 5 to | .. | .. |
| 6 ins. | .. | .. |
| Taxus hicksi, 2-yr., 6 to 8 ins. | .. | .. |
| Taxus andersoni, 2-yr., 6 to 8 ins. | .. | .. |
| Taxus cuspidata, 2-yr., 6 to 8 ins. | .. | .. |
| Taxus media, 2-yr., 6 to 8 ins. | .. | .. |
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| Boxwood, Korean, 2-yr., 3 ins. | .. | .. |
| Buxus sempervirens, 2-yr., 4 ins. | .. | .. |
| HEAVY ROOTED CUTTINGS | | |
| From flats, growing outside in lath house, | | |
| Boxwood, Korean, hardy, 3 ins. | \$0.09 | \$0.08 |
| Juniperus glauca hetzi, 6 ins. | .. | .. |
| Arborvitae elegantissima | .. | .. |
| Taxus hicksi, 5 to 6 ins., ready | .. | .. |
| Taxus intermedia, 5 to 6 ins., ready | .. | .. |
| Taxus cuspidata, 5 to 6 ins., ready | .. | .. |
| Taxus andersoni, 5 to 6 ins., ready | .. | .. |
| Taxus media, 5 to 6 ins., ready | .. | .. |
| Taxus hatfieldi, 4 to 5 ins. | .. | .. |
| Taxus browni, 4 to 5 ins. | .. | .. |
| Taxus capitata fastigiata, 4 ins. | .. | .. |
| TERMS: Packing and boxing free. 3 per | | |
| cent discount for cash with order. | | |
| 250 plants of each variety at 1000 rate. | | |

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OUR SPECIALTY

| Sturdy liners, dirt-grown in full sun. | Each, 100 | 1000 |
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| 4 to 6 ins. | 8c | 7 1/2c |
| 6 to 8 ins. | 11c | 10c |
| 8 to 10 ins. | 16c | 15c |
| 10 to 12 ins. | 22c | 20c |

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EVERGREEN LINERS

| POTTED LINERS, 2 1/2-in. pots | Each, 100 | 1000 |
|----------------------------------|-----------|--------|
| Pfitzer Juniper | \$0.25 | \$0.20 |
| Burk Juniper, 2-yr. | .. | .. |
| Woodward Globe Arborvitae | .. | .. |
| Pyramidal Arborvitae | .. | .. |
| Dark green American Arborvitae | .. | .. |
| Hetz glauca Juniper | .. | .. |
| POTTED LINERS, 2-in. pots | | |
| Blota aurea nana, 2-yr. | .. | .. |
| Armstrong Pfitzer Juniper, 2-yr. | .. | .. |
| FIELD-GROWN LINERS, from | | |
| pots and 2-yr. nursery row. | | |
| Blota aurea nana | .. | .. |
| Pyramidal Arborvitae | .. | .. |
| Pfitzer Juniper | .. | .. |
| Armstrong Pfitzer Juniper | .. | .. |
| Woodward Globe Arborvitae | .. | .. |
| FIELD-GROWN LINERS, from pots | | |
| and 1-yr. nursery row. | | |
| Blota aurea nana | .. | .. |
| Pfitzer Juniper | .. | .. |
| Woodward Globe Arborvitae | .. | .. |
| Armstrong Pfitzer Juniper | .. | .. |
| ROOTED CUTTINGS, heavy rooted | | |
| cuttings in lath house, | | |
| ready now. | | |
| Pfitzer Juniper | .. | .. |
| Hetz glauca Juniper | .. | .. |
| Pyramidal Arborvitae | .. | .. |
| Woodward Globe Arborvitae | .. | .. |
| Dark green American Arb. | .. | .. |
| Taxus browni | .. | .. |

TERMS: Cash with order. Free packing.

300 plants of a variety at 1000 rate.

Write for special prices on large quantities.

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FIELD-GROWN LINERS

| Greek Juniper, 8 to 12 ins. | Each, 100 | 1000 |
|-------------------------------|-----------|--------|
| Greek Juniper, 6 to 8 ins. | \$0.15 | \$0.13 |
| Hetz Juniper, 8 to 12 ins. | .. | .. |
| Hetz Juniper, 6 to 8 ins. | .. | .. |
| Savin Juniper, 8 to 12 ins. | .. | .. |
| Savin Juniper, 6 to 8 ins. | .. | .. |
| Pfitzer Juniper, 8 to 12 ins. | .. | .. |
| Pfitzer Juniper, 4 to 8 ins. | .. | .. |
| Polish Juniper, 12 to 15 ins. | .. | .. |
| Ashford Juniper, 8 to 12 ins. | .. | .. |

BEECH-GROWN

| Hetz Juniper, 8 to 12 ins. | Each, 100 | 1000 |
|----------------------------|-----------|------|
| Burford Holly (Chinese) | .. | .. |
| Sargent Barbary | .. | .. |
| Hetz bullata (Holly) | .. | .. |

POTTED PLANTS (2 1/2-IN.)

| Andorra Juniper | Per 100 | Per 1000 |
|------------------------|---------|----------|
| Sargent Barbary | .. | .. |
| Burford Holly | .. | .. |
| Mahonia Holly | .. | .. |
| Yaupon Holly | .. | .. |
| Magnolia | .. | .. |
| Burk Juniper | .. | .. |
| Pyracantha (red berry) | .. | .. |

Packing and boxing free. 2 per cent discount for cash with order. 250 plants of each variety at 1000 rate.

GRANT'S NURSERY

Caledonia, Miss.

| EVERGREEN LINERS | Per 100 | Per 1000 |
|---|---------|----------|
| EVERGREEN SEEDLINGS | | |
| Douglas Fir, 2-yr., 2 to 4 ins. | \$5.00 | \$30.00 |
| Am. Arborvitae, 2-yr., 3 to 6 ins. | 2.50 | 20.00 |
| Blue Lawson Cypress, 2-yr., 4 to | | |
| 8 ins. | 5.50 | .. |
| Colo. Blue Spruce, 2-yr., 2 to 4 | 4.00 | .. |
| French Scotch Pine, 2-yr., 4 to 6 ins. | 2.50 | 22.00 |
| 6 to 10 ins. | 5.00 | 28.00 |
| German Low Plain Scotch Pine, 2-yr., | | |
| 4 to 8 ins. | 3.00 | 22.00 |
| 8 to 12 ins. | 5.00 | 28.00 |
| EVERGREEN TRANSPLANTS | 10 | 100 |
| Colorado Blue Spruce, | | |
| 4-yr., T, 2 to 6 ins. | \$3.50 | \$14.00 |
| 4-yr., T, 6 to 10 ins. | 4.50 | 19.00 |
| 5-yr., T, 12 to 15 ins. | 5.50 | 35.00 |
| Douglas Fir, 4-yr., 3 to 6 ins. | 4.50 | 13.00 |
| 4-yr., 6 to 12 ins. | 5.50 | 19.00 |
| Lawson Blue Spruce, 4-yr., TT, | | |
| 10 to 16 ins. | 3.00 | 15.00 |
| Scotch Pine Christmas trees, pruned, 3 to | | |
| 9 ft., also Red, White and Jack Pines, 3 to | | |
| 7 ft. | | |

CARLSON'S EVERGREENS

Stop 25, Duneland Beach, Michigan City, Ind.

EVERGREENS

CUTTINGS AND LINERS

Special cleanup prices while they last.
Exceptionally well-rooted Taxus cuspidata,
Juniperus hetzi glauca and Irish Juniper,
\$6.50 per 100, \$60.00 per 1000.

3-yr. field-grown Taxus cuspidata and
Irish Juniper, \$25.00 per 100, \$200.00 per
1000.

Packing free. Cash with order, please.

NEIDEL'S NURSERY & GREENHOUSE

Mtd. Route 4 Oil City, Pa.

JUNIPER GRAFTS

Spring 1959 delivery.

VARIETIES: Hurki, canertii, columnaris,
blue; Dundee, glauca, keteleeri and various
Pfitzer, Virginia understock used.

45c each, F.O.B. Louisville, Ky.

Packing at cost.

HALLENBERG NURSERY

R. 2, Box 119 Anchorage, Ky.

3-YR. FIELD-GROWN LINERS

| Per 100 | Per 1000 |
|--|----------|
| Hetz convexa, XX, 8 to 13 ins. | \$30.00 |
| Hetz rotundifolia, XX, 12 to 15 ins. | .. |
| Juniper, Andorra, XX, 9 to 12 ins. | 32.50 |
| Juniperus hetzi, XX, 9 to 12 ins. | 35.00 |
| Juniperus hetzi, XX, 12 to 15 ins. | 42.50 |
| Juniperus pfitzeriana, XX, 9 to 12 ins. | 35.00 |
| Juniperus pfitzeriana, XX, 12 to 15 ins. | 42.50 |
| Jun. pfitz. compacta, XX, 12 to 15 ins. | 42.50 |
| Jun. pfitz. golden, XX, 12 to 15 ins. | 42.50 |
| Taxus cuspidata, XX, 8 to 13 ins. | 40.00 |
| Taxus hicksi, XX, 8 to 12 ins. | 40.00 |
| Thuja elegantissima, XX, 9 to 12 ins. | 35.00 |
| Thuja spiralis, XX, 9 to 12 ins. | 35.00 |
| Thuja woodwardi, XX, 10 to 15 ins. | 35.00 |

DAMASCUS NURSERIES

Damascus, O.

EVERGREEN SEEDLINGS

| Per 100 | Per 1000 |
|---------------------------------------|----------|
| Scotch Pine, 2-yr., 2 to 4 ins. | \$10.00 |
| Scotch Pine, 2-yr., 4 to 8 ins. | 16.00 |
| Scotch Pine, 3-yr., 8 to 12 ins. | 20.00 |
| Scotch Pine, 3-yr., 12 to 18 ins. | 25.00 |
| Austrian Pine, 3-yr., 8 to 12 ins. | 20.00 |
| Red Pine, 3-yr., 6 to 10 ins. | 20.00 |
| Douglas Fir, 3-yr., 6 to 12 ins. | 23.00 |
| Colo. Blue Spruce, 2-yr., 4 to 6 ins. | 21.00 |
| Colo. Blue Spruce, 2-yr., 2 to 4 ins. | 13.00 |

Many varieties of Scotch Pine to choose
from. Send for complete listing, including
Christmas trees, field-grown liners and B&B
stock and quantity prices.

We invite your inspection.

CARROLL'S NURSERY, Cochran, Ga.

SEEDLINGS AND TRANSPLANTS

| 3-yr. seedlings | Per 100 | Per 1000 |
|----------------------------------|---------|----------|
| Scotch Pine (riga), 8 to 14 ins. | \$6.00 | \$35.00 |
| Austrian Pine, 8 to 14 ins. | 6.00 | 35.00 |
| Blue Douglas Fir, 4 to 8 ins. | 6.00 | 35.00 |
| Norway Spruce, 5 to 10 ins. | 5.00 | 30.00 |

4-yr. transplants

| Blue Douglas Fir, 6 to 12 ins. | Per 100 | Per 1000 |
|------------------------------------|---------|----------|
| Concolor Fir, 4 to 8 ins. | 20.00 | .. |
| Colorado Blue Spruce, 5 to 10 ins. | 20.00 | .. |

Cash with order, packing free.

All priced F.O.B. Angola, N. Y.

Please send for complete list.

ARTHUR CASH NURSERY

Angola, N. Y.

EVERGREEN LINERS

| Per 100 | Per 1000 |
|---------------------------------|----------|
| Juniper, Andorra, 2 1/2-in. | \$22.00 |
| Pfitzer, 2 1/2-in., extra heavy | 22.00 |
| Hetz, 2 1/2-in., extra heavy | 22.00 |
| Blue Pfitzer, 2 1/2-in. | 22.00 |
| Compact Pfitzer, 2 1/2-in. | 22.00 |
| Irish, 2 1/2-in. | 22.00 |
| Yew, Hicks, 2 1/2-in. | 22.00 |
| Brown, 2 1/2-in. | 22.00 |
| Halloran, 2 1/2-in. | 22.00 |
| Thayer, 2 1/2-in. | 22.00 |

Samples sent on request.

DIEHL'S FLOWER SHOP & NURSERY

R. 1, Box 150 Columbia, Ill.

CHRISTMAS TREES

Scotch Pine, 5 to 8 ft., sheared 5 times.
Scotch Pine, 3 to 8 ft., sheared 4 times.
Scotch Pine, 8 to 12 ft., sheared 7 times.
Red Pine, 8 to 12 ft., sheared 7 times.

5000 5 to 7 ft. Scotch Pine available.

Live Scotch and Red Pine, 3 to 4 ft.,
sheared, twice root pruned.

We will be happy to show you our ex-

tensive plantation and our nursery producing

Christmas tree seedlings

RAYMOND NELSON

CHRISTMAS TREE NURSERY

DuBois, Pa.

PINE, SPRUCE SEEDLINGS

| AND LINERS | 100 | 1000 |
|------------------------------------|---------|---------|
| Scotch Pine, 3-yr., 8 to 14 ins. | \$ 6.00 | \$35.00 |
| Colo. Blue Spruce, 4-yr., | | |
| 6 to 12 ins. | 8.00 | 55.00 |
| Norway Spruce, 3-yr., 6 to 12 ins. | 6.00 | 40.00 |
| Juniperus glauca hetzi, 2-yr., | | |
| 6 to 12 ins. | 25.00 | .. |
| Spreading Jap. Yew, 3-yr., | | |
| 4 to 8 ins. | 30.00 | .. |

Write for complete list.

PAINT CREEK NURSERIES

H. D. 1 Shippenville, Pa.

2-YR. EVERGREEN LINERS

| Each, 100 | 1000 |
|-------------------------------|---------------|
| Taxus hicksi, 8 to 10 ins. | \$0.22 \$0.20 |
| Taxus hatfieldi, 8 to 10 ins. | .. |
| Taxus cuspidata, 8 to 10 ins. | .. |
| Andromeda, 10 to 13 ins. | .. |

All plants are heavily branched and have
excellent color.

HAMPDEN MEADOWS NURSERY

488 Sowams Rd. Barrington, Ill.

CANADA HEMLOCK

| Carefully collected. | Per 100 | Per 1000 |
|----------------------|---------|----------|
| 8 to 12 ins. | \$65.00 | \$650.00 |
| 8 to 18 ins. | 70.00 | 700.00 |

SUNBURY AIRPORT NURSERY

P. O. Box 416 Sunbury, Pa.

Phone AT 6-2671

BOXWOOD, CARR'S HARDY TYPE

2-yr., in bands, well-rooted. \$32.50 per 100

EUTONYMUS SARCOXIE

Heavy plants, in bands. 30.00 per 100

LINWORTH NURSERY

5785 Godown Rd. Columbus 14, O.

EVERGREENS, Liners—Continued

| DOUGLAS FIR | |
|--|--|
| 2-yr., field-grown, average 6 to 8 ins., graded. | |
| Root pruned. Very carefully packed. | |
| \$25.00 per 1000, F.O.B. Sheridan. | |
| \$100.00 per 5000 F.O.B. Sheridan. | |
| Order now. Spring, 1959 delivery. | |
| 5 per cent discount all cash orders. | |
| FULTON V. SMITH, SHERIDAN, ORE. | |
| NANDINA SEEDLINGS | |
| 1-yr., 4 to 6 ins., \$5.00 per 100, \$45.00 per 1000. | |
| 2-yr., 12 to 15 ins., \$10.00 per 100, \$90.00 per 1000. | |
| 3-yr., 2 to 3 ft., \$15.00 per 100, \$125.00 per 1000. | |
| PINKSTON NURSERIES, PARROTT, GA. | |
| 100 American Red Pine, 5 to 7 ft., \$1.00 per ft. | |
| 50 Scotch Pine, blue strain, \$1.25 per ft. | |
| No. 1, sheared 3 t.p. | |
| Loding's Nursery, 4001 Coaltown, Moline, Ill. | |

EVERGREENS, Miscellaneous**COLORADO BLUE SPRUCE**

Good color. 24 to 36 ins.
You dig them.
Special price for row-run.
Fall, 1958. Spring, 1959.

MEYERS GARDENS & NURSERY
Cresco, Ia.

EVERGREENS, B&B**SHEARED SPECIMENS,**

CAREFULLY GRADED
Berberis julianae, Belkville selection; compact, more handsome than old julianae. B&B.

| | |
|---|--------|
| 2000 12 ins., medium weight..... | \$1.25 |
| 500 15 ins., medium..... | 1.40 |
| 450 18 ins., heavy..... | 2.00 |
| 300 21 ins., heavy..... | 2.25 |
| 500 24 ins., heavy..... | 2.50 |
| 400 30 ins., heavy..... | 3.00 |
| Pinus strobus, heavy sheared specimens. B&B. | |
| 250 5 ft..... | \$5.00 |
| 300 6 ft..... | 6.50 |
| 65 7 ft..... | 7.50 |
| Taxus canadensis, heavy, full graded specimens. | |
| 6000 2 ft..... | \$2.70 |
| 2400 2 1/2 ft..... | 3.15 |
| 1200 3 ft..... | 3.60 |
| 200 3 1/2 ft..... | 4.20 |
| 4 ft. (10 per cent of total Hemlock order)..... | 4.80 |
| 3 per cent discount on 200 to one truck. | |
| 5 per cent discount on 400 to one truck. | |
| Ilex, conifers, shade and flowering tree specimens in variety. Write for complete list. | |
| HAYNESFIELD NURSERIES | |
| Bristol, Tenn. | |

PFITZER JUNIPER

Transplanted, extra nice, sheared.

| | Per 20-100 | Per 1000 |
|-------------------|------------|----------|
| 12 to 15 ins..... | \$1.55 | \$1.60 |
| 16 to 18 ins..... | 2.50 | 2.00 |
| 18 to 24 ins..... | 2.75 | 2.50 |
| 24 to 30 ins..... | 3.75 | 3.50 |

NORWAY SPRUCE

| | | |
|--------------------|--------|--------|
| 18 to 24 ins..... | \$2.00 | \$1.75 |
| 2 to 2 1/2 ft..... | 2.25 | 2.00 |
| 2 1/2 to 3 ft..... | 3.00 | 2.75 |
| 3 to 4 ft..... | 5.00 | ... |

SCOTCH PINE

| | | |
|--------------------|--------|--------|
| 18 to 24 ins..... | \$2.00 | \$1.75 |
| 2 to 3 ft..... | 2.75 | 2.50 |
| 3 to 3 1/2 ft..... | 2.75 | 3.50 |
| 3 1/2 to 4 ft..... | 4.75 | ... |

Please send for wholesale list.

R. BRUMOND SMITH NURSERY

R. R. 2, Box 198 Muncie, Ind.

Phone AT 2-5144

FINISHED LANDSCAPE MATERIAL

Fall, 1958—Spring, 1959.

1000 Colorado Spruce, heavy, 4 and 5 ft., \$1.50 per ft., in 100 lots.

1500 White and Norway Spruce, 4, 5 and 6 ft., \$1.00 per ft., in 100 lots.

These prices for trees in ground.

Transplanted, pruned. State inspected.

SPRUCE ACRES

A. V. Osterling & Son

1286 East Main Rd., Newport, R. I.

Phone Newport. Dial VI 6-3183.

ITEMS IN SURPLUS THIS FALL, B&B.

| | |
|---|--------|
| Ilex rotundifolia, 18 to 24 ins..... | \$2.00 |
| Ilex glabra, 18 to 24 ins..... | 1.75 |
| Euonymus patens, 18 to 24 ins..... | 1.50 |
| Redleaf Barberry, 2 to 3 ft..... | 1.50 |
| Various upright Junipers, 3 1/2 to 4 ft. 2.50 | |
| Various Arborvitae, Pfitzer's, Viburnums, etc. Write for list. Priced F.O.B. nursery. | |
| HALLENBERG NURSERY | |
| R. 2, Box 119 Anchorage, Ky. | |

EVERGREENS

| | Each |
|---|---------|
| 100 Arborvitae, American, 3 to 4 ft..... | \$ 3.00 |
| 100 Arborvitae, Globe, 12 ins..... | 1.65 |
| 450 Arborvitae, nigra, 2 ft..... | 2.00 |
| 100 Juniper, Dwarf Irish, 18 to 24 ins..... | 2.00 |
| 50 Pfitzer Juniper, upright trained, 2 1/2 to 3 ft..... | 4.25 |
| 250 Pine, Austrian, 18 to 24 ins..... | 1.90 |
| 40 Pine, Austrian, 5 to 6 ft..... | 10.50 |
| 300 Pine, Scotch, 2 to 3 ft..... | 2.50 |
| 450 Pine, White, 18 to 24 ins..... | 2.00 |
| 300 Pine, White, 5 to 9 ins..... | 2.50 |
| 500 Spruce, Norway, 18 to 24 ins..... | 1.75 |

Write for complete list.

THE HOME NURSERY

Corliss Ingels

140 miles southwest of Chicago

at Junction of Rt. 17 and 78 in Stark County

Since 1887

LaFayette, Ill.

EVERGREENS, ETC. B&B

| | |
|---|--------|
| 2100 Andorra Juniper, 18 to 24 ins..... | \$2.00 |
| 300 Andorra Juniper, 24 to 30 ins..... | 2.50 |
| 280 Andorra Juniper, 30 to 36 ins..... | 2.95 |
| 3600 Hetz Juniper, 18 to 24 ins..... | 2.25 |
| 2700 Hetz Juniper, 24 to 30 ins..... | 2.50 |
| 4200 Ilex rotundifolia, 15 to 18 ins..... | 2.25 |
| 2300 Ilex rotundifolia, 18 to 24 ins..... | 2.75 |
| 2100 Pfitzer Juniper, 18 to 24 ins..... | 2.50 |
| 1100 D. Mugho Pine, 15 to 18 ins..... | 2.20 |
| 700 Dogwood, white-fl., 4 to 5 ft..... | 2.25 |
| 900 Dogwood, white-fl., 5 to 6 ft..... | 2.95 |
| 600 Dogwood, white-fl., 6 to 7 ft..... | 4.00 |
| 400 Dogwood, white-fl., 7 to 8 ft..... | 6.60 |

Can quote on larger grades. Looking for a deal? We also sell row-run and by the block.

Above stock closely sheared. Fine balling soil. To avoid delay, give us advance notice of your arrival. Phone 395.

WHERRY'S NURSERIES, St. Marys, W. Va.

EVERGREENS, A-1 QUALITY

About 1000 finished Evergreens, mostly Yews. Grown with plenty of space. None overgrown. Buyer to dig. Have been in this trade 40 years. No giveaway price but good deal to sincere, responsible buyer. Also will sell land, nearly 10 acres, or land and stock. Good opportunity for younger man. South of Chicago.

FRED W. VAN OYEN

1314 Sherman St., S. E.

Grand Rapids 6, Mich.

EVERGREENS, B&B

F.O.B. Lawrence, Kan.

| | Each | 1 to 10 | 100 |
|---|--------|---------|-----|
| Juniperus pfitzeriana, green, 15 to 18 ins..... | \$2.75 | \$2.50 | |
| Juniperus pfitzeriana, blue, 24 to 30 ins..... | 3.75 | 3.50 | |
| Juniperus virginiana canari, 3 1/2 to 4 ft..... | 6.00 | 5.75 | |
| 4 1/2 to 5 ft..... | 6.75 | 6.50 | |

These items are superior quality.

SMITH FLORAL NURSERY AND LANDSCAPE DEPT.

East 23rd St., Box 395 Lawrence, Kan.

EVERGREENS

| | |
|---|--------|
| Globe Arborvitae, 12 to 15 ins..... | \$1.50 |
| Pyramidal Arborvitae, 24 to 30 ins..... | 2.00 |
| Golden tipped Arborvitae, 15 to 18 ins..... | 1.75 |
| Andorra Juniper, 18 to 24 ins..... | 2.50 |
| Hetz Juniper, 18 to 24 ins..... | 2.50 |
| Mugho Pine, 15 to 18 ins..... | 2.25 |
| Canada Hemlock, 15 to 18 ins..... | 2.50 |

Write for complete listing, including Taxus, Junipers, Ilex, Arborvitae, Spruce and field-grown Taxus liners and seedlings. Good, hardy, well-sheared stock.

Write for quantity prices.

Pay us a visit.

CARROLL'S NURSERY, COCHRANTON, PA.

TAXUS CUSPIDATA CAPITATA

(Grown from seed) Each, 10 100

18 to 24 ins.....\$4.00 \$3.75

24 to 30 ins.....5.00 4.75

JUNIPERUS GLAUCA HETZI

24 to 30 ins.....3.50 3.00

JUNIPERUS COMMUNIS HIBERNICA

24 to 30 ins.....1.75 1.50

KRAYNAK NURSERY

2429 E. State St. Sharon, Pa.

200 ANDORRA JUNIPER

36 ins. Priced right.

You dig them.

ARCH NURSERIES

266 Kenmore Elmhurst, Ill.

Phone TE 2-0243

PFITZER AND HETZ JUNIPERS

5000 sheared and well-cultivated.

15 to 18 ins.....\$1.00 each

18 to 24 ins.....1.25 each

BUKUS SEMPERVIRENS

6 to 8 ins.....\$2.00 per 100

10 to 12 ins.....6.00 per 100

12 to 15 ins.....100.00 per 100

Special price on large quantities.

A. J. BUTTERFIELD, FARMINGTON, MO.

THUJAS

GLOBE, PYRAMIDAL and NIGRA.
Woodward's Globe, 12 to 15, 15 to 18 ins.
Pyramidal, 3 to 4 ft. and 4 to 5 ft.
Nigra, 24 to 30, 30 to 36 and 36 to 48 ins.
Good stock, priced right.

FIKE NURSERIES, HOPKINSVILLE, KY.

FRUIT AND NUT TREES**PECAN TREES, PAPER-SHELL**

The nation's finest quality paper-shell Pecan trees. Vigorous, heavy caliper, smooth trees, grown under irrigation. All staked and trimmed for best appearance. Machine dug with the whole fibrous root system intact. Free, four-color Point of Purchase banners showing in life-like color, all varieties. Free planting guides for your customers. Order now while selections are complete. Varieties available: Stuart, Success, Mahan, Schley, John Garner, Western Schley, Burkett.

PRICES

| | 10 | 100 | 500 |
|----------------|--------|--------|--------|
| 2 to 3 ft..... | \$1.30 | \$1.25 | \$1.20 |
| 3 to 4 ft..... | 1.45 | 1.40 | 1.35 |
| 4 to 5 ft..... | 1.85 | 1.80 | 1.75 |
| 5 to 6 ft..... | 2.35 | 2.30 | 2.20 |
| 6 to 7 ft..... | 3.30 | 3.20 | 3.10 |
| 7 to 8 ft..... | 3.85 | 3.75 | 3.65 |

WOLFE NURSERY

Box 2000 Stephenville, Tex.

THOMAS BLACK WALNUTS

Grafted, 18 to 24 ins., 75c; 2 to 3 ft., \$1.00; 3 to 4 ft., \$1.25; 4 to 5 ft., \$1.40. We grow the nicest Thomas Black Walnut trees in the country. Minimum order, 25 trees. 25 per cent with order, balance on delivery; no credit shipments. All prices net, F.O.B. Rogers; no charge for packing.

CLINGER NURSERY

Highway 71 West Rogers, Ark.

24 VARIETIES**DWARF APPLE TREE ASSORTMENTS**

Consists of about even parts of 1 and 2-yr. Malling VII and IX trees, large, healthy, different varieties. Prices are F.O.B. packing at cost. 10 for \$16.00; 20 for \$30.00; 30 for \$42.00.

BAUM'S NURSERY

213-02 75th Ave., Bayside 64, N. Y.

DWARF FRUIT TREE UNDERSTOCK**APPLE STOCKS**

Malling, E. M., II, VII, IX

Clark Dwarf

PEAR STOCKS

QUINCE, E. M., A, B, C.

UNDERSTOCK NURSERY

Box 389 Medford, Ore.

GRAPEVINES

CONCORD, Niagara 2 yr. old, No. 1, extra heavy, 10c each; 2-yr. No. 2, 6c each.

McKEE'S NURSERY

P. O. Box 749 Covington, La.

DWARF EAST MALLING ROOT STOCK

for Apples, Pears, Peaches.

See our ad on page 55.

V. KRAUS NURSERIES

Carlisle, Ont., Canada

GERANIUMS**QUALITY GERANIUM CUTTINGS**

Unrooted, \$3.75 per 100, \$35.00 per 1000; rooted, \$7.50 per 100, \$70.00 per 1000. Special varieties slightly higher. Catalog of over 150 leading varieties free.

C. SECRIST, MUSCATINE, IA.

GROUND COVERS**GROUND COVERS**

| | Per 100 |
|--|---------|
| Ajuga genevensis..... | \$ 5.00 |
| Ajuga, red-leaf..... | 5.00 |
| Ajuga, variegated-leaf..... | 5.00 |
| Vinca minor, variegated..... | 30.00 |
| Pachysandra..... | 10.00 |
| Euonymus coloratus erectus, 3-yr..... | 40.00 |
| Euonymus vegetus, 3-yr..... | 40.00 |
| Euonymus Berryhill, 3-yr..... | 40.00 |
| Euonymus Berryhill and Euonymus coloratus erectus, 12 to 15 ins..... | 50.00 |
| 15 to 18 ins..... | 60.00 |
| 18 to 24 ins..... | 70.00 |

Terms: Cash with order, please.

No packing charges.

HOPPERTON NURSERY

P. O. Box 65 Naperville, Ill.

EUONYMUS COLORATUS BRISTOL LIGHT

Speedy ground cover and bank retainer. 3-yr.-old plants with large runners, \$50.00 per 100, \$450.00 per 1000; unrooted cuttings in lots of 500 only, \$5.00 per 100.

Gipsy moth and Jap. beetle zone only.

NORTHERN LANDSCAPE TREE FARM

West Avon Road Avon, Conn.

HARDY MYRTLE AND EUONYMUS

Myrtle, 1000, \$50.00; 2000 to 10,000, \$45.00 per 1000; over 10,000, \$40.00 per 1000.

Euonymus coloratus, erectus and minimus, 1, 2, 3 and 4-yr. plants. Also specimen Sugar Maples.

VAUGHAN'S NURSERY

& GREENHOUSE PRODUCTS

15910 Cleveland Rd., Granger, Ind.

HARDY MYRTLE

Fresh-dug, good, made-up, 10-lead plants. Prepaid, cash prices.
 Bonny Blue Blend (The Blues) \$5.00 per 100
 Double Red 6.00 per 100
 English Ivy, assorted: Baltic and Thorndale (low supply), 100 divisions for \$7.50.
 Bonny Blue Blend, 1000 for \$45.00.
 Vinca major (protect in winter), assorted; green and variegated leaf, \$9.00 per 100.
 Convallaria majalis, mixed, \$12.50 per 100.
GOLDEN ACRES NURSERY
 Shipshewana, Ind.

PERIWINKLE

Hardy running Myrtle (Vinca minor), heavy 15 to 25-cane clumps, of better than ever quality, dug and shipped fresh, \$50.00 per 1000.
 Honeysuckle (Hall's halliana), 2 to 3 branched, \$45.00 per 1000.
 English Ivy (Hedera helix), 1-yr., rooted cuttings, \$50.00 per 1000.
 Pachysandra, 1-yr., rooted cuttings, \$50.00 per 1000.

H. C. WAUGH

Box 41, Upper River Rd. Gallipolis, O.

HEAVY EUONYMUS

Euonymus coloratus, 18 to 24 ins. \$0.65
 24 to 30 ins.90
 Euonymus vegetus, 10 to 12 ins.65
 12 to 15 ins.80
 15 to 18 ins. 1.00
 18 to 24 ins. 1.25
 Priced F.O.B. nursery, bare-root. Minimum 10 plants. Add 50c for balled and burlapped.

THE MEAD NURSERY & FARMS

Route 5 Oconomowoc, Wis.

KINNICKINNICK GROUND COVER

(Arctostaphylos uva-ursi)
 Collected vines with generous amount of roots. Enough for 1000 cuttings.
 Postpaid, \$10.00.

DAVID A. LAWYER & SONS NURSERIES
 Plains, Mont.

Hardy Myrtle (Vinca minor), plants with 50 leads or more and good roots, \$5.00 per 100. \$45.00 per 1000. Pachysandra, sand-rooted cuttings, \$40.00 per 1000. English Ivy, sand-rooted cuttings, \$40.00 per 1000. Cash. Also potted stock of all items listed.
 Samuel I. Minder, 305 Euclid Ave., Lancaster, Pa.

VINCA MINOR

\$15.00 per 100; 1000 or more, \$40.00 per 1000. Cash with order.
VERONA GARDENS, TED GREVERS
 Route 5 Battle Creek, Mich.

PACHYSANDRAS

Strong plants, \$50.00 per 1000.
 2 per cent discount, cash with order.
H. C. WAUGH
 Box 41 Gallipolis, O.

Euonymus alatus compactus, rooted cuttings. Please see complete list on page 81. Templeton, Phytoktor, Winchester, Tenn.

HARDWOOD CUTTINGS

HARDWOOD CUTTINGS
 Unrooted, from our own blocks and plantings. Hand-trimmed, ready for bed planting. Guaranteed true to name.

| | |
|-----------------------------------|----------|
| Andorra Juniper | Per 1000 |
| Hetz Blue Juniper | \$15.00 |
| Burk Juniper | 15.00 |
| Canaret Juniper | 15.00 |
| Sargent Juniper | 20.00 |
| Hillspire Juniper | 15.00 |
| Keteleer Juniper | 15.00 |
| Meyer Juniper | 20.00 |
| Irish Juniper, fastigiata | 15.00 |
| Pfitzer Juniper | 15.00 |
| Savin Juniper | 15.00 |
| Spiny Greek Juniper | 15.00 |
| Dark green Arborvitae, nigra | 15.00 |
| Globe Arborvitae | 15.00 |
| Pyramidal Arborvitae | 15.00 |
| Swedish Juniper | 15.00 |
| Siberian Arborvitae, wareana | 15.00 |
| Upright Yew, Taxus capitata, tips | 15.00 |
| Spreading Yew, Taxus cuspidata | 15.00 |

Delivery at any time, 500 at 1000 rate.
 Packed free. Cash with order, please.
BOB NEFRASH NURSERIES
 Trade Shangri-La Mark
 Rt. 2 Cedar Rapids, Ia.

HARDY PLANTS**SPECIALIZING IN PERENNIALS**

We grow over 500,000 strong field-grown plants.
 Send for our current price list.

SPRINGBROOK GARDENS, INC.

Dept. A-10 Mentor, O.

NEW DWARF OREGON ASTERS AND MANY OTHER FINE PERENNIALS
 Write for trade list.
CASCADE GARDENS
 Route 1, Box 509 Canby, Ore.

HARDY PLANTS

Heavy No. 1, field-grown perennials with strong roots. Ready now, or will hold until spring.
 Alyssum saxatile citrinum
 Artemisia Silver Mound
 Dianthus plumarius
 Anemone tinctoria
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 Shasta Daisy (Diener's Hybrid)
 Delphinium Belladonna
 Delphinium Lamartine
 Delphinium Wrexham Strain
 Gaillardia Portola Hybrids
 Geum Lady Stratheden
 Geum Bradshaw
 Gypsophila pacifica, pink
 Gypsophila paniculata
 Heliosis zinnaefolia
 Hesperis matronalis
 Iberis sempervirens
 Incarvillea, crimson
 Linum flavum
 Linum (perennial Flax)
 Lupine Russell Hybrids
 Lunaria biennis
 Lychnis chalcedonica
 Lychnis viscaria
 Oenothera lamarckiana
 Oenothera missouriensis
 Physostegia virginiana
 Polemonium Jacob's Ladder
 Pyrethrum James Kelway
 Pyrethrum roseum
 Rudbeckia Autumn Frosts
 Saponaria ocyroides
 Sedum spectabile Brilliant
 Stokesia carynea

VARIETIES LISTED ABOVE

\$1.75 per 10, \$12.00 per 100.
 Heuchera (Coral Bells) sanguinea
 Tritoma pitzieri
 Veronica icicle
 Veronica Minuet
 Veronica Sunny Border, blue
 5 VARIETIES LISTED ABOVE
 \$2.00 per 10, \$15.00 per 100.
 TERMS: Cash with order, or 25 per cent with order and balance C.O.D.

R. R. 2 WALTERS GARDENS
 Zeeland, Mich.

HARDY FIELD-GROWN PERENNIALS
 Aquilegia, separate colors; Arabis, Aubrietia, Campanula, Carnations, Chives, Delphinium Pacific Hybrids, 10 separate colors; Dianthus, Digitalis, Doronicum, Gaillardia, Geums, Helleborus niger, Iberis sempervirens, English Lavender, Lythrum, Russell Lupines, Myosotis, Oriental Poppies, Phlox sub. 15 varieties; Primroses, Pyrethrum (Daisies), Shasta Daisy Esther Read, Sedums, 10 varieties; Sweet Williams, Thymes, Tritomas, Trollius, Violas, Violets.
 If you have not received our list, send for it now. 100 more good varieties.
 All plants fresh dug for each order.
 Shipping now.
GEORGE FRANK & SON
 Penfield, N. Y.

FUNKIA SUBCORDATA GRANDIFLORA

\$35.00 per 100, \$300.00 per 1000.
 Prices cash, F.O.B. our nursery.

MERRILL'S NURSERY

870 Madison Ave. Painesville, O.

ORIENTAL POPPIES

2-yr., field-grown 100 1000

PRINCESS VICTORIA, salmon-pink \$9.00 \$85.00

orange-scarlet 6.00 55.00

DELPHINIUM GIANT PACIFIC

HYBRIDS, mixed; 2-yr. 6.50 60.00

NOVOTNY GARDENS, OSAGE, IA.

HARDY PLANTS
 Our new listing of well-developed perennial plants is now available. Plan now to set our field-grown plants into pots or bands, so that you may have them ready to go for the early spring rush.

R. R. 2 WALTERS GARDENS
 Zeeland, Mich.

HARDY FERNS (FALL DELIVERY ONLY)

\$10.00 per 100, \$75.00 per 1000.

Ostrich, Clayton, Lady and Maidenhair.

STRAND NURSERY CO.

Taylor Falls, Minn.

America's best source for Hardy Plants is

THE WAYSIDE GARDENS

Mentor, Ohio

Write for Trade List.

PERENNIALS

Transplanted, ready for shipping.

Write for trade list.

SCHULTZ PERENNIAL GARDENS

Box 234 Mercer, Wis.

Liriodopsis, hardy, evergreen, for walks and borders; strong divisions, \$20.00 per 1000.

Mountville Nurseries, Mountville, Ga.

SPECIALISTS IN HARDY PERENNIALS

Ask for wholesale offer.

PEARCE SEED CO., Moorestown, N. J.

WELLERS BETTER PERENNIALS

See our full page ad on page 45.
WELLER NURSERIES CO., Holland, Mich.
 Write for trade list.

HELLEBORUS**HELLEBORUS NIGER**

(Christmas Rose)

2-yr. transplants, blooming size.

Suitable to pot up for sales on roadside stands and garden centers.

\$50.00 per 100, \$450.00 per 1000.

C. HOOGENDOORN

Turner Rd. Newport, R. I.

HEMEROCALLIS**HEMEROCALLIS**

Dawn, Mikado, Rajah, Theron, A. Pioneer,

\$1.50 per 10, \$12.00 per 100.

Purple Waters, Sachem, Serenade, Sweet-

brier, Hankov, Vesta, 10, \$2.50; 100, \$20.00.

HURLEY NURSERY, FAIRFAXVILLE, O.

HOLLY**ILEX OPACA****CUTTING WOOD**

20 named varieties. Very hardy.

Also male and female, unnamed.

WRITE FOR PRICES

and SHIPPING SCHEDULE.

BERRIED HOLLIES**HARDY NAMED OPACAS**

5-yr., 1-gal. nursery cans.

5 to 10, \$2.20; 11 to 50, \$2.00 each.

5-yr., 2-gal. nursery cans.

5 to 10, \$3.25; 11 to 50, \$3.00 each.

Nursery pickup. No shipping.

EWALT'S

HEMLOCK HOLLOW NURSERY

R. D. 2, Box 111 Wexford, Pa.

17 miles north of Pittsburgh

Phone WEatmore 5-1009

ILEX OPACA**SUPERIOR NAMED VARIETIES****WHOLESALE SUPPLIERS****OF LINING-OUT STOCK**

Write for our price list.

HOLLY HAVEN, INC.

Box 75 New Lisbon, N. J.

Holly liners, Ilex opaca, Ilex cornuta bur-

fordi, Ilex, crenata convexa, hetsi and r-

tundifolia.

Please see complete list on page 81.

Templeton, Phytoktor, Winchester, Tenn.

MAY WE QUOTE YOU ON OUR**BETTER OREGON HOLLIES?**

Skimmia Japonica, general nursery stock.

ALFRED TEUFEL, WHOLESALER GROWER

11414 N. W. Cornell Rd. Portland, Ore.

Ilex glabra, 2 yrs. old, heavy roots from

beds, \$20.00 per 100, \$125.00 per 1000.

Cedarhurst Nurseries, Inc., 3044 Pawtucket

Ave., East Providence, R. I.

HONEYSUCKLES**HONEYSUCKLES**

Lonicera japonica halliana, extra-heavy

No. 1, 3 and 4-yr., 18 to 24-in. field plants,

3, 4 to 6 leads, \$40.00 per 1000; lighter grade,

\$30.00 per 1000; sample 100, \$4.00. Experi-

enced labor for grading and packing quan-

tity orders. Immediate shipment. No order

too large. Phone OR 2-4612.

ROBINSON NURSERY CO., Greenville, Ga.

Hall's Honeysuckles, good plants, well

packed, \$20.00 per 1000.

Mountville Nurseries, Mountville, Ga.

Classified Ads Offer Maximum**Results at Minimum Cost.****IRISES****IRISES**

5 of a variety at 10 rate.

25 of a variety at 100 rate.

Per 10 Per 100

ALADDIN'S WISH, blue \$1.50 \$12.00

BIRLING BLUE, blue 1.50 12.00

JAKE, white 1.50 12.00

CHRISTABEL, copper-red 1.50 12.00

MAJENICA, salmon-pink 1.50 12.00

MELANIE, pink 1.50 12.00

MING YELLOW, yellow 1.50 12.00

MULBERRY ROSE, mulberry 1.50 12.00

NOONDAY SKY, sky-blue 1.50 12.00

RANGER, crimson-red 1.50 12.00

RED GLEAM, chestnut-red 1.50 12.00

RED MEADOW, red 1.50 12.00

ROYAL COACH, dark blue 1.50 12.00

SABLE, blue-black 1.50 12.00

TIFFANY, reddish brown 1.50 12.00

VIOLET CROWN, lilac 1.50 12.00

WABASH, white velvet 1.50 12.00

WINTER CARNIVAL, white 1.50 12.00

PARKER'S PEONY FARM AND NURSERY

Fayetteville, N. Y.

IVIES

BALTIMORE IVY
Hardest Ivy. Fine for wall or ground cover. True stock. Well-rooted plants.
Per 100 Per 1000
Rooted cuttings \$7.00 \$65.00
2-in. pots 12.50 115.00

NEW THORNDALE IVY
2½-in. pots \$25.00 per 100
Euonymus kewensis, 2-in. pots, 20.00 per 100
EUONYMUS VEGETUS
2-in. pots, \$12.00 per 100, \$110.00 per 1000.
2-yr. field-grown, \$35.00 per 100.

STRATFORD GARDENS
Russell Breece, M. R. 9 Delaware, O.

ENGLISH IVY (HEDERA HELIX)
Our super quality large-leaved strain.
Approved landscape architects' standards.
Order now! Ready for immediate shipment.
Strong 5 to 7-in. cuttings from field plants, \$6.00 per 100, \$55.00 per 1000.
BABCOCK GARDENS, R. 3, Jamestown, N. Y.

Ivies, large and small-leaved, grown in open beds; good salable plants, \$5.00 per 100, \$40.00 per 1000.
Mountville Nurseries, Mountville, Ga.

LAWN GRASS AND SEED

"PURE KY." BLUE GRASS LAWN SEED
We have beautiful crop of bright, clean seed this year and you will be delighted with the price, quality and results. Order a good supply now.

100 lbs., \$37.50; 50 lbs., \$19.50; 25 lbs., \$10.50; 10 lbs., \$5.00. All F.O.B. here, subject to price change and unsold.

ROUTE 2 WALNUT LAWN FARM
Lexington, Ky.

LILACS

FRENCH HYBRID LILACS
Heavy plants, well-grown with irrigation.
Each, 10
2 to 3 ft. \$0.95
3 to 4 ft. 1.25

WHITE
Ellen Willmott, Marie Legraye, Mont Blanc, Special White.

BLUE
President Lincoln, Pres. Grevy.

LILAC
Jacques Callot, Thunberg, Michel Buchner, Alphonse Lavalleye.

PINK AND PINKISH
Katharine Havemeyer, Lucie Baltet, Belle de Nancy, Jean Bart, Berryer, Leon Gambetta, Pres. Carnot.

MAGENTA
Condorcet, Charles Joly.

PURPLE
Ludwig Spaeth.

Priced F.O.B. nursery. Packing extra.
THE MEAD NURSERY & FARMS
Route 5 Oconomowoc, Wis.

OWN-ROOT LILAC PLANTS
GROWN FROM CUTTINGS
No grafting. No budding.

On their own roots from the very start.
THREE TOP VARIETIES,
2 to 3-ft. size, twice cut back.

Vigorous, fully branched, shapely plants.
LAMARTINE, early single deep pink, blooms two weeks earlier than others. Large flowers, extra large spikes, fine fragrance.

MME. F. MOREL, single red, very large flowers, foot-long spikes on long stems. Unsurpassed for cut flowers.

MACROSTACHYA, single light pink, profuse bloomer with long, slender spikes.

Lots of 10 or more, \$1.00 each.
F.O.B. nursery.

LILAC-LAND (Cedar Hill Nursery)
Glen Head, L. I., N. Y.

LILAC SPECIMENS
Bushy, shapely and own-root. Grown from cuttings. **DECAISNE**, single blue; 5 to 6 ft. **GEO. BELLAIR**, double red; 4 to 5 ft. **J. d'ARC**, double white; 4 to 5 ft. and 5 to 6 ft. **PRES. GREY**, double blue; 5 to 6 ft.

PRICES: Bare-root, your truck, 4 to 5 ft., \$30.00 per 10, \$275.00 per 100; 5 to 6 ft., \$40.00 per 10, \$375.00 per 100. Come and see them.

FARR NURSERY CO., WOMELSDORF, PA.
Phone LUther 9-5661

LILACS 10 to 100
LINERS, COMMON \$0.08
WHITE10

BUSHES
2 to 3 ft., **COMMON**30
CONGO, single red, 3 to 4 ft. 1.10
LEON MATHEAU, single red, 3 to 4 ft. 1.10
MME. CATHERINE BRUCHET, double white 3 to 4 ft. 1.10

PARKER'S PEONY FARM AND NURSERY
Fayetteville, N. Y.

LINING-OUT STOCK

TAXUS, ILEX, broad-leaved Evergreens, etc., in variety. Write for our latest list of liners and finished stock.

Del-Mar-Va Nurseries, Box 3, Lincoln, Del.

LINING-OUT STOCK

Per 100 Per 1000
(EACH) (EACH)

*Althaea coelestis (blue), 1-yr. grafts \$0.25

*Althaea Lady Sneyd, 2-yr. semi-double white, pink center, 1-yr. grafts25

*Althaea Woodbridge (large single pink), 1-yr. grafts25

Cotoneaster divaricata, 1-yr. seedlings 12½ \$0.10

*Enkianthus campanulatus (cuttings), strong 2-yr. T, 8 to 12 ins.40

*Euonymus radicans erectus, strong 3-yr. T40

*Euonymus vegetus, strong 2-yr. T, heavy30

*Euonymus vegetus, strong 3-yr. T, heavy40

*Fagus sylvatica riversi (River's Purple Beech), 2-yr. grafts, 12 to 18 ins. 1.75

*Forsythia Beatrix Farrand (NEW), 1-yr. T, softwood cuttings30

*Forsythia Lynwood Gold, 1-yr. T, softwood cuttings18

*Forsythia Spring Glory, 1-yr. T, softwood cuttings15

*Hydrangea hortensis (hardy), deep pink, compact grower, 2-yr. T50

Ilex compacta, 2-yr. T40

Ilex glabra compacta, 2-yr. T40

Ilex latifolia, 2-yr. T40

Ilex rotundifolia, 2-yr. T40

Juniper, Andorra, 2-yr. T40

Juniperus hetzi, 2-yr. T40

Juniperus pfitzeriana glauca, 2-yr. T, from cuttings35

*Leucothoe catesbaei, strong 3-yr. T40

*Pieris japonica (Andromeda japonica), 3-yr. T, 9 to 12 ins.50

Prunus maritima (Beach Plum), 1-yr., sdgs., 12 to 18 ins.15

Prunus tomentosa (Nanking Cherry), strong 1-yr. seedlings10

Rhododendron virginale, seedlings, 3-yr. TT, 8 to 12 ft.75

Taxus brevifolia (nana), 2-yr. T45

Taxus cuspidata, spread-ink, 2-yr. T45

Taxus intermedia, 2-yr. T40

Thuja woodwardii, 2-yr. T35

Viburnum tomentosum (true), 1-yr. T, softwood cuttings, 8 to 12 ins.25

Viburnum wrightii, 3-yr. grafts, 2 to 3 ft. 1.25

*Vitis macrophylla (true), 2-yr. bedded, 18 to 24 ins.40

*Weigela vaniciei, 1-yr. T, softwood cuttings25

ITEMS SUITABLE FOR MAIL ORDER TRADE AND CANNING.
See other listings under Azaleas, Maples, Helleborus, Taxus and Viburnums.

C. HOOGENDOORN, NURSERYMAN
413 Turner Rd. Newport, R. I.

LINING-OUT STOCK

Per 100 Per 1000
Fagus sylvatica, 2-yr. T, FR, 6 to 9 ins. \$15.00 \$140.00

Taxus cuspidata, upright, 2-yr., seedlings, 4 to 6 ins. 15.00 120.00

Viburnum carlesii (fragrant), 1-yr. seedlings 12.00 100.00

Viburnum dilatatum macrophyllum (Jap.), 1-yr. seedlings 8.50 75.00

Viburnum dilatatum pilosulum, 1-yr. seedlings 8.50 75.00

Viburnum dilatatum (Linden), 1-yr. seedlings 7.50 65.00

BOULEVARD NURSERIES
Newport, R. I.

LINING-OUT STOCK
Fall 1958 Spring 1959
400 Clethra alnifolia rosea, 6 to 9 ins. TT \$0.40

450 Ilex glabra, 6 to 9 ins. TT35

300 Ilex opaca, female; 6 to 9 ins. TT45

200 Ilex opaca, female; 9 to 12 ins. TT55

300 Pyracantha Kanan, 9 to 12 ins. TT55

300 Pyracantha islandi, 6 to 9 ins. TT40

500 Pyracantha islandi, 9 to 12 ins. TT50

100 Pyracantha Kanan, 12 to 15 ins., 1-gal. cans 1.50

500 Pyracantha islandi, 12 to 15 ins., 1-gal. cans 1.25

THE CAPE COD NURSERIES
H. V. Lawrence, Inc.
Falmouth, Mass.

SEEDLINGS, SURPLUS
Strong, healthy seedlings ready for transplanting, 400 to 500 per flat. Special quotation on quantity. **Pieris japonica**, \$15.00 per flat. **Azalea calendulacea**, **kaempferi** and **poukhanensis**; **Leucothoe catesbaei**, \$11.00 per flat. Hybrid **Rhododendrons** (hardy red parent), \$8.50 per half flat. **Rhod. carolinianum**, \$7.50 per half flat. Shipped in flats in special cartons. Deliveries at cost.

JOHN VERMEULEN & SON, INC.
Neshanic Station, N. J.

EVERGREENS

Andorra Juniper, 6 to 8 ins., bare-root \$0.05

Blue Hetz Juniper, 6 to 10 ins., bare-root05

Burk Juniper (upright), 6 to 10 ins., bare-root14

Blue Pfitzer Juniper, 6 to 8 ins., bare-root07

Pfitzer Juniper, 6 to 10 ins., bare-root07

Procumbens Juniper, 4 to 6 ins., bare-root10

Hills Dark Green American Arborvitae (Pyramidal), 5 to 8 ins.12

Rosefield's Mongol Juniper (upright acupulorum), a denser Blue Heaven. Bare-root, 6 to 8 ins.30

Rosefield's Montana Green Juniper (upright semi-dwarf scopulorum. Requires no trimming), 5 to 7 ins., bare-root30

Pfitzer Juniper, plant bands16

Taxus cuspidata, 6 to 8-in. bands20

Taxus cuspidata, 6 to 8 ins., bare-root10

Taxus media hickel, 6 to 8 ins., bare-root10

DECIDUOUS, BARE-ROOT

Althaea Lucy, 6 to 8 ins.05

Blue-leaved Arctic Willow, 10 to 12 ins.06

Forsythia Arnold's Giant, 5 to 8 ins.07

Forsythia Beatrix Farrand, 6 to 10 ins.05

Forsythia Lynwood Gold, 4 to 10 ins.05

Forsythia nana compacta, 5 to 8 ins.07

Forsythia Spring Glory, 6 to 10 ins.04

Cornus stol. flav. (Gold Twig), 5 to 8 ins.05

Hydrangea A.G., 6 to 10 ins.10

Hypericum barbatum, 6 to 10 ins.06

Hypericum kalmianum, 6 to 8 ins.05

Honeysuckle (bush), Zabel, 10 to 12 ins.05

Honeysuckle (vine), heckrotti, giant everbl., 10 to 12 ins.05

Philadelphus Bouquet Blanc, 6 to 8 ins.05

Philadelphus virginicus, 6 to 10 ins.05

Privet, Chinese, Wayside Garden's strain, 8 to 12 ins.04

Privet, Regels, 8 to 10 ins.04

Privet, Lodense, 6 to 10 ins.05

Privet golden vicari (all yellow), 6 to 10 ins.07

Spiraea macrophylla, 6 to 10 ins.05

Viburnum op. ater. (Snowball), 6 to 10 ins.10

Viburnum tomentosum, 6 to 10 ins.10

Weigela vaniciei, 5 to 6 ins.06

Euonymus carrierei, 8 to 10 ins.04

Euonymus patens, Flagpole (small leaf), 8 to 10 ins.04

Euonymus patens, Owen (small leaf), 8 to 10 ins.04

Euonymus patens, Newport, medium leaf, 8 to 10 ins.04

Euonymus patens, Rosehill, medium leaf, 8 to 10 ins.04

Euonymus patens, large leaf, 8 to 10 ins.04

Euonymus coloratus, 8 to 10 ins.04

Euonymus radicans (upright Sarcocoe), 5 to 6 ins.07

Purple Leaf (Texas) Honeysuckle vine, 6 to 10 ins.05

Variegated Honeysuckle vine (Gold Net), 10 to 12 ins., 2-yr.06

Pyracantha Kanan, 5 to 6 ins. Hardy in Iowa07

Pyracantha islandi, 5 to 6 ins.05

Pyracantha pauciflora, shiny small leaves. Dwarf, round, dense bush. Hardest of all, 5 to 6 ins.06

PERENNIALS

Teucrium chamaedrya, 5 to 8 ins.04

All above at 25¢ each outdoor plants. Less than 300 total order, 2¢ more per plant. Less than 50 of any item, 4¢ more per plant.

McNINCH GREENHOUSES
St. Joseph, Mo.

2½-IN. LINING-OUT STOCK

Juniperus armstrongii \$0.20

Juniperus hetzi glauca25

Juniperus virginiana glauca20

Juniperus procumbens15

Juniperus pfitzeriana20

Juniperus pfitzeriana, blue20

Juniperus sabina tamariscifolia25

Juniperus torulosa25

Nerium (Oleanders), 6 varieties, red, salmon, pink, cherry, double pink, white15

Ilex cornuta, cutting-grown from berried stock plants20

Ilex burfordii20

Packing free and EXPRESS PREPAID to any point in continental U. S. Cash with order.

MULHOLLAND NURSERY
2009 Lincoln Ave. Montebello, Calif.

HEAVY LINERS FROM FIELD BEDS
Per 100
Taxus cuspidata, 10 to 15 ins., 4-yr. TTT \$55.00

10 to 12 ins., 3-yr. TT 40.00

Taxus capitata, 10 to 12 ins., 3-yr. TT 50.00

8 to 10 ins., 2-yr. T 40.00

Taxus brown, 10 to 12 ins., 3-yr. TT 50.00

Taxus hickel, 8 to 12 ins., 3-yr. TT 45.00

Taxus hatfieldi, 8 to 12 ins., 3-yr. TT 45.00

Taxus hunnewelliana, 10 to 12 ins., 3-yr. TT 50.00

Euonymus vegetus, 10 to 15 ins., branched 35.00

Ribes alpinum, 10 to 15 ins., branched 15.00

STROHL'S NURSERY
5204 St. Joe Rd. Fort Wayne, Ind.

LINING-OUT STOCK

| | |
|--|---------|
| Abelia Edward Goucher, 10 to 12 ins. | \$0.15 |
| 8 to 10 ins. | .12 1/2 |
| Abelia grandiflora, 12 to 15 ins. | .15 |
| 10 to 12 ins. | .12 1/2 |
| Acer palmatum, 8 to 10 ins. | .15 |
| Arbutus (Berckmans' Golden), 8 to 8 ins. | .15 |
| Arbutus (globe), 8 to 10 ins. | .15 |
| Buxus harlandi, 6 to 8 ins. | .15 |
| Buxus japonica, 6 to 8 ins. | .15 |
| Buxus sempervirens, 6 to 8 ins. | .15 |
| Buxus suffruticosa, 4 to 6 ins. | .15 |
| Candytuft (Iberis sempervirens, white), 2 to 4 ins. | .10 |
| Cercis canadensis (Redbud), 2 to 3 ft. | .10 |
| 18 to 24 ins. | .15 |
| Cherry Laurel, 12 to 15 ins. | .10 |
| Cleyera japonica, 10 to 12 ins. | .20 |
| 8 to 10 ins. | .15 |
| Cotoneaster divaricata, 10 to 12 ins. | .15 |
| 8 to 10 ins. | .15 |
| Cotoneaster horizontalis, 8 to 10 ins. | .20 |
| Cotoneaster parneyi, 6 to 8 ins. | .15 |
| 8 to 10 ins. | .15 |
| Cunninghamia glauca, 6 to 8 ins. | .15 |
| Elaeagnus fruticulata, 8 to 10 ins. | .15 |
| Forsythia, 12 to 15 ins. | .15 |
| 8 to 10 ins. | .12 1/2 |
| Gardenia Myrtifolia, 12 to 15 ins. | .15 |
| 10 to 12 ins. | .12 1/2 |
| Ginkgo biloba, 6 to 8 ins. | .10 |
| Hypericum, 12 to 15 ins. | .15 |
| Ilex cassine, 10 to 12 ins. | .20 |
| 8 to 10 ins. | .15 |
| Ilex cornuta, 8 to 10 ins. | .15 |
| Ilex cornuta burfordii, 10 to 12 ins. | .20 |
| 8 to 10 ins. | .15 |
| 6 to 8 ins. | .12 1/2 |
| Ilex crenata, 8 to 10 ins. | .15 |
| 6 to 8 ins. | .12 1/2 |
| Ilex crenata helleri, 4 to 6 ins. | .15 |
| Ilex crenata rotundifolia, 8 to 10 ins. | .15 |
| 6 to 8 ins. | .12 1/2 |
| Ilex opaca East Palatka, 8 to 10 ins. | .15 |
| Ilex opaca fosteri, 8 to 10 ins. | .15 |
| Ilex opaca howardii, 10 to 12 ins. | .20 |
| 8 to 10 ins. | .15 |
| Jasminum floridum, 12 to 15 ins. | .15 |
| 10 to 12 ins. | .12 1/2 |
| Jasminum primulinum, 12 to 15 ins. | .15 |
| 10 to 12 ins. | .12 1/2 |
| Jasminum nudiflorum, 12 to 15 ins. | .15 |
| 10 to 12 ins. | .12 1/2 |
| Juniperus glauca hetzi, 8 to 10 ins. | .15 |
| Juniperus pfitzeriana, 8 to 10 ins. | .15 |
| Juniperus pfitzeriana procumbens, 6 to 8 ins. | .15 |
| Juniper (Irish), 8 to 10 ins. | .15 |
| Koeleruteria paniculata (Golden-rain Tree), 15 to 18 ins. | .20 |
| 12 to 15 ins. | .15 |
| 10 to 12 ins. | .10 |
| Loropetalum chinense, 10 to 12 ins. | .20 |
| 8 to 10 ins. | .15 |
| Lonicera nitida, 8 to 10 ins. | .15 |
| Lonicera yunnanensis, 8 to 10 ins. | .15 |
| Ligustrum nepalense, 12 to 15 ins. | .15 |
| Ligustrum lucidum, 12 to 15 ins. | .15 |
| Magnolia glauca, 10 to 12 ins. | .20 |
| Magnolia grandiflora (1-yr. seedling), 4 to 6 ins. | .10 |
| Mahonia bealei, 8 to 10 ins. | .20 |
| 6 to 8 ins. | .15 |
| Osmanthus fragrans, 10 to 12 ins. | .20 |
| Osmanthus fortunei, 10 to 12 ins. | .20 |
| 8 to 10 ins. | .15 |
| Osmanthus aquifolium, 8 to 10 ins. | .15 |
| Photinia serrulata, 10 to 12 ins. | .15 |
| Photinia glabra, 10 to 12 ins. | .15 |
| Pinus nigra (Austrian Pine), 4 to 6 ins. | .15 |
| Pinus strobus (White Pine), 4 to 6 ins. | .15 |
| Pyracantha (red berry, cutting-grown, good variety), 15 to 18 ins. | .20 |
| 12 to 15 ins. | .15 |
| Raphiolepis umbellata (japonica), 2-yr., 4 to 6 ins. | .15 |
| Retinospora ericoides, 8 to 10 ins. | .15 |
| 6 to 8 ins. | .12 1/2 |
| Salix discolor (Pussy Willow), 2 to 3 ft. | .15 |
| 18 to 24 ins. | .10 |
| Sasanqua Cleopatra, 12 to 15 ins. | .20 |
| 10 to 12 ins. | .17 1/2 |
| 8 to 10 ins. | .15 |
| Sophora japonica, 12 to 15 ins. | .10 |
| 10 to 12 ins. | .07 1/2 |
| Teucrium chamaedrys, 4 to 6 ins. | .10 |
| Viburnum odoratissimum, 10 to 12 ins. | .20 |
| 10 to 12 ins. | .15 |
| Viburnum tinus, 10 to 12 ins. | .20 |
| 8 to 10 ins. | .15 |
| Cocos australis (Palm), 1-yr., 6 to 8 ins. | .10 |

SHIPPING NOTICE:

Above prices are F.O.B. Stovall, Ga. Lining-out stock is shipped bare-root and well-packed, with no packing charges. INCLUDE EXTRA MONEY ON SMALL ORDERS WHICH CAN GO PARCEL POST. Large orders are shipped express collect.

ALL NURSERY STOCK IS GROWN HERE AND IS GOVERNMENT INSPECTED.
CALVIN HARMAN NURSERY
Stovall, Georgia

LINERS OF THE BETTER KINDS
Write for price list.
GULF STREAM NURSERY, INC.
Wachapreague, Va.

LINING-OUT STOCK

| Bedded 1-yr. in the open | 100 | 1000 |
|---|---------|----------|
| Ilex convexa | \$20.00 | \$180.00 |
| Ilex rotundifolia | 20.00 | 180.00 |
| Ilex hetzi | 20.00 | 180.00 |
| Juniperus pfitzeriana | 20.00 | 180.00 |
| Juniperus hetzi | 20.00 | 180.00 |
| Taxus andersonii | 20.00 | 175.00 |
| Taxus brevifolia | 20.00 | 175.00 |
| Taxus capitata, cutting-grown | 25.00 | 225.00 |
| Taxus capitata Adams, cutting-grown | 25.00 | 225.00 |
| Taxus canadensis stricta | 16.00 | 150.00 |
| Taxus cuspidata | 17.50 | 150.00 |
| Taxus hatfieldi | 17.50 | 150.00 |
| Taxus hunnewelliana | 17.50 | 150.00 |
| Taxus hicksii | 17.50 | 150.00 |
| Taxus intermedia | 17.50 | 150.00 |
| Taxus densiformis | 20.00 | 175.00 |
| Taxus vermeulenii | 17.50 | 150.00 |
| Taxus wardii | 17.50 | 150.00 |
| Taxus Moon's columnaris | 20.00 | 175.00 |
| Taxus brownii | 17.50 | 150.00 |
| 2-yr. bedded in the open | 100 | 1000 |
| Ilex convexa, 6 to 9 ins. | \$25.00 | \$200.00 |
| Ilex rotundifolia, 6 to 9 ins. | 25.00 | 200.00 |
| Ilex hetzi, 6 to 9 ins. | 25.00 | 200.00 |
| Taxus Adams col., 12 to 15 ins. | 50.00 | 450.00 |
| Taxus Moon's col., 8 to 12 ins. | 30.00 | 250.00 |
| Taxus cuspidata, 6 to 9 ins. | 30.00 | 250.00 |
| Taxus hatfieldi, 6 to 9 ins. | 30.00 | 250.00 |
| Taxus cuspidata comp., 6 to 9 ins. | 30.00 | 250.00 |
| Taxus hunnewelliana, 6 to 9 ins. | 30.00 | 250.00 |
| Taxus browni, 6 to 9 ins. | 30.00 | 250.00 |
| Taxus intermedia, 6 to 9 ins. | 30.00 | 250.00 |
| TAXUS CAPITATA, SEEDLING-GROWN | 100 | 1000 |
| 1-yr. seedlings | \$ 6.00 | \$ 50.00 |
| 2-yr. seedlings | 10.00 | 90.00 |
| 3-yr. seedlings | 17.50 | 150.00 |
| 4-yr. seedlings, transplanted, 6 to 10 ins. | 30.00 | 250.00 |
| CORNU FLORIDA (WHITE DOGWOOD) | 100 | 1000 |
| Seedlings | 100 | 1000 |
| 1-yr., No. 1 grade | \$ 6.00 | \$ 50.00 |
| 1-yr., No. 2 grade | 5.00 | 40.00 |
| 1-yr., No. 3 grade | 4.00 | 30.00 |
| 2-yr., No. 1 grade | 12.50 | 100.00 |
| 2-yr., No. 2 grade | 10.00 | 90.00 |
| Special prices on large quantities. | | |

Full list on demand.

VERKADE'S NURSERIES, WAYNE, N. J.

QUALITY LINERS

| Propagated from strong, healthy, true-to-name stock. | Each, 100 rate | 1000 rate |
|--|----------------|-----------|
| Buxus koreana, 2-yr. pot | \$0.35 | \$0.30 |
| Euonymus alatus, 1-yr., tr. | .20 | .18 |
| compactus, 2-yr., tr., 6 to 10 | .28 | .25 |
| 2-yr. pot | .28 | .25 |
| 2-yr., tr., 10 to 12 ins. | .45 | .35 |
| Euonymus r. erectus, 2-yr., tr., 6 to 8 ins., bushy | .20 | .18 |
| 2-yr., tr., 8 to 12 ins. | .25 | .22 |
| Juniperus hor. plumosa, 2-yr. pot | .30 | .28 |
| Malus Dorothea, pink, 1-yr. gft. | .35 | .32 |
| Picea mariehei, 1-yr. from gft. spr. only | 1.75 | 1.65 |
| Rhus aromatica, 2-yr., tr., 4 to 5 ins. | .18 | .15 |
| 2-yr., tr., 6 to 8 ins. | .25 | .22 |
| Symphoricarpos hancei, 2-yr., tr., 6 to 12 ins. | .30 | .25 |
| Tamarix Summer Glow, 1-yr. hwo | .18 | .16 |
| Taxus cuspidata, 2-yr. pot | .30 | .28 |
| cuspidata, 3-yr. from pl. bd. | .40 | .35 |
| capitata, 4-yr., tr. fld. | .55 | .53 |
| c. nigra, NEW, 2-yr. pot | .35 | .32 |
| c. nigra, NEW, 3-yr., tr. | .70 | .65 |
| c. thayerae, 2-yr. pot | .30 | .28 |
| densiformis, 2-yr., tr., heavy | .45 | .43 |
| intermedia (Seblan), 2-yr. pot | .30 | .28 |
| andersoni, 2-yr. pot | .30 | .28 |
| andersoni, 3-yr., from pl. bd. | .40 | .35 |
| browni, 2-yr. pot | .30 | .28 |
| hatfieldi, 2-yr. pot | .30 | .28 |
| hicksii, 2-yr. pot | .28 | .25 |
| hicksii, 3-yr., from pl. bd. | .40 | .35 |
| repandens, 1-yr. from gft. | .95 | .90 |
| wardi, 2-yr. pot | .35 | .32 |
| Thuja hoveyi, 2-yr. pot | .25 | .22 1/2 |
| nigra, 2-yr. pot | .28 | .25 |
| woodwardi, 2-yr. pot | .28 | .25 |
| Viburnum carlesii, 2-yr., tr. gft., 6 to 12 ins. | .60 | .55 |
| carlesii, 2-yr., tr. gft., 12 to 16 | .70 | .65 |
| opul. nanum, 2-yr. pot | .30 | .28 |

THE COTTAGE GARDENS

Nick I. W. Kriele, Harold E. Hicks
Our 35th year
Lansing 17, Mich.

LINING-OUT STOCK NOW READY

| | |
|---|---------|
| Juniperus pfitzeriana, 2 1/2-in. | \$0.15 |
| Juniperus tamariscifolia, 2 1/2-in. | .17 1/2 |
| Juniperus armstrongii, 2 1/2-in. | .17 1/2 |
| Juniperus conferta, 2 1/2-in. | .20 |
| Juniperus procumbens, 2 1/2-in. | .17 1/2 |
| Pine, Japanese Black (bonsai), 2 1/2-in. | .17 1/2 |
| Pine, Japanese Red, 2 1/2-in. | .17 1/2 |
| Pine, Monterey, 2 1/2-in. | .15 |
| Pine, Mt. Aleppo, 2 1/2-in. | .15 |
| Cedrus deodara, 2 1/2-in. | .20 |
| Chamaecyparis obtusa crispis, 2 1/2-in. | .25 |
| Euonymus japonicus (5 varieties), 2 1/2-in. | .10 |

SYLMAR NURSERIES

P. O. Box 552 San Fernando, Calif.

ROOTED CUTTINGS

This STOCK can be shipped either in the fall or spring season.

| Each, 100 | 1000 |
|--|---------------|
| Aralia pentaphylla, 1-yr., 12 ins. | \$0.10 \$0.08 |
| Berberis mentenensis, 1-yr., 10 ins. | .10 .09 |
| Cotoneaster divaricata, 1-yr., 10 ins. | .12 .10 |
| Cotoneaster apiculata, 1-yr., 8 ins. | .12 .10 |
| Cotoneaster adpressa, 1-yr., 8 ins. | .12 .10 |
| Cotoneaster wardi, 1-yr., 10 ins. | .12 .10 |
| Caryopteris Blue Mist, 1-yr., 10 ins. | .10 .08 |
| Deutzia gracilis, 1-yr., 12 ins. | .10 .08 |
| Deutzia lemoinei, 1-yr., 12 ins. | .10 .08 |
| Deutzia gracilis rosea, 1-yr., 12 ins. | .10 .08 |
| Cydonia jap. rubra, 1-yr., 10 ins. | .12 .10 |
| Clethra alnifolia, 1-yr., 6 ins. | .10 .08 |
| Euonymus alatus, 1-yr., 10 ins. | .10 .08 |
| Euonymus velutinus, 1-yr., 8 ins. | .12 .10 |
| Euonymus a. compactus, 1-yr., 8 ins. | .12 .10 |
| Euonymus coloratus, 1-yr., 10 ins. | .10 .08 |
| Euonymus erectus, 1-yr., 10 ins. | .10 .08 |
| Euonymus Silver Edge, 1-yr., 5 ins. | .12 .10 |
| Forsythia Beatrix Farrand, 6 ins. | .10 .08 |
| Hypericum Hidcote, 1-yr., 10 ins. | .10 .08 |
| Hydrangea A. G., 1-yr., 10 ins. | .10 .08 |
| Kolkwitzia amabilis, 1-yr., 8 ins. | .12 .10 |
| Ligustrum ibota aureum, 1-yr., 8 ins. | .10 .08 |
| Magnolia soulangeana, 1-yr., 6 ins. | .20 .18 |
| Philadelphus aureus, 1-yr., 8 ins. | .12 .10 |
| Potentilla K. Dykes, 1-yr., 8 ins. | .12 .10 |
| Potentilla Gold Drop, 1-yr., 10 ins. | .12 .10 |
| Ribes alpinum, 1-yr., 8 ins. | .12 .10 |
| Spiraea jap. coccinea, 1-yr., 12 ins. | .10 .08 |
| Viburnum opulus nanum, 1-yr., 6 ins. | .14 .12 |
| Viburnum tomentosum, 1-yr., 12 ins. | .10 .08 |
| Viburnum latanaphyllum, 1-yr., 10 ins. | .18 .16 |
| Viburnum lentago, 1-yr., 12 ins. | .14 .12 |
| Viburnum dilatatum, 1-yr., 12 ins. | .14 .12 |
| Viburnum dentatum, 1-yr., 12 ins. | .12 .10 |
| Viburnum burkwoodii, 1-yr., 10 ins. | .18 .16 |
| Viburnum americanum, 1-yr., 10 ins. | .10 .08 |
| Viburnum acerifolium, 1-yr., 12 ins. | .14 .12 |
| Viburnum sterile, 1-yr., 10 ins. | .14 .12 |
| Weigela purpurea, 1-yr., 8 ins. | .14 .12 |
| Weigela, var. leaf, 1-yr., 12 ins. | .12 .10 |

CHAMPION NURSERIES, PERRY, O.

GOLDEN GOOSE LINERS

For immediate delivery or for reservation. All quotations are for beautiful lining-out stock from 2 1/2-in. pots, grown in open beds under field conditions and ready for field planting.

| | |
|--|---------|
| | Per 100 |
| Ilex cornuta burfordi, 8 to 10 ins. | \$10.00 |
| Ilex cornuta burfordi, 6 to 8 ins. | 8.00 |
| Ilex cornuta femina, 8 to 10 ins. | 10.00 |
| Ilex cornuta femina, 6 to 8 ins. | 8.00 |
| Ilex opaca femina (American Holly), 8 to 10 ins. | 25.00 |
| Ilex opaca femina, 6 to 8 ins. | 20.00 |
| Ilex opaca howardii, 6 to 8 ins. | 14.00 |
| Ilex opaca East Palatka, 6 to 8 ins. | 12.00 |
| Ilex crenata rotundifolia, 10 to 12 ins. | 12.00 |
| Ilex crenata rotundifolia, 8 to 10 ins. | 10.00 |
| Ilex crenata rotundifolia, 6 to 8 ins. | 8.00 |
| Ilex crenata bullata convexa, 6 to 8 ins. | 12.00 |
| Ilex crenata bullata convexa, 4 to 6 ins. | 10.00 |
| Ilex crenata microphylla, 6 to 8 ins. | 12.00 |
| Euonymus radicans, 8 to 10 ins. | 8.00 |
| Euonymus radicans, 6 to 8 ins. | 6.00 |
| Ligustrum lucidum compactum (Griffings black wax), 8 to 10 ins. | 12.00 |
| Pyracantha japonica, 8 to 10 ins. | 12.00 |
| Pyracantha yunnanensis, 8 to 10 ins. | 16.00 |
| Buxus harlandi, 4 to 6 ins. | 8.00 |
| Buxus japonica, 4 to 6 ins. | 8.00 |

Our Hollies are grown from either cuttings or grafts, from well-berried specimens, ensuring berries for you.

This stock guaranteed 100 per cent satisfactory or return for full refund.

TERMS: Packing without cost. 25 per cent with order, balance C.O.D. Minimum 50 of a kind, please.

EVERGREEN NURSERIES

Poplar Pike

Germantown, Tenn.

QUALITY POTTED LINERS

TAXUS, hicksii, brownii, cuspidata, wardi
ILEX, opaca, burfordi, crenata types
MAGNOLIAS, virginiana, grandiflora
VIBURNUM, burkwoodii, carlesii, juddi
SHADE TREE SEEDLINGS
ALL NURSERY-GROWN
Many other potted liners available.
Would appreciate your sending for price list.
DONALD J. HILLENMEYER
1550 Meadowthorpe Ave. Lexington, Ky.

LINERS FOR FALL

AND SPRING SHIPMENT, ONLY

18,000 Taxus cuspidata, 2-yr., open bedded, heavy liners, 20c.
Minimum order 250.
Please send cash with order.
LAURIEN NURSERIES, INC.
464 Main St. Agawam, Mass.

Male Ginkgo biloba, from cuttings.
Please see complete list on page 81.
Templeton, Phytotektor, Winchester, Tenn.

LINING-OUT STOCK—Continued

| LINING-OUT STOCK | |
|---|-------------|
| Arborvitae, boothi, 8 to 10, X | Each \$0.25 |
| Columbia, 8 to 10, X | 25 |
| Berberis julianae, 8 to 10, X | 25 |
| Ilex cornuta, 8 to 10, X | 24 |
| microphylla, 8 to 10, X | 24 |
| rotundifolia, 8 to 10, X | 23 |
| Juniperus hetzi glauca, 6 to 8, X | 24 |
| 8 to 10, X | 29 |
| Ligustrum lucidum, 8 to 10, X | 29 |
| Leucothoe catesbaei, 12 to 14, X | 40 |
| Retinosporas, obtusa nana compacta, 6 to 8, X | 23 |
| Juniperoides, 8 to 10, X, heavy, good | 24 |
| Taxus, cuspidata, 6 to 8, X | 24 |
| 8 to 10, X | 29 |
| hatfieldi, 6 to 8, X | 24 |
| 8 to 10, X | 29 |
| Halloran, 6 to 8, X | 24 |
| 8 to 10, X | 29 |
| Jeffreya, 8 to 10, X | 29 |

| ROOTED CUTTINGS | |
|-----------------------------------|----|
| Arborvitae boothi | 08 |
| Arborvitae Geo. Peabody | 08 |
| Arborvitae nigra | 08 |
| Berberis julianae | 09 |
| Ilex bullata | 06 |
| Ilex cornuta | 08 |
| Ilex crenata | 06 |
| Ilex opaca femina | 15 |
| Juniperus hetzi glauca | 09 |
| Retinospora plumosa aurea | 07 |
| Taxus cuspidata | 08 |
| Packing free. Immediate delivery. | |

ESHAM'S NURSERIES, MILLSBORO, DEL.

LINING-OUT STOCK
We are now booking orders for fall and winter delivery of the following heavily rooted liners:

| | |
|-----------------------|-------------------|
| Buxus japonica | Ilex rotundifolia |
| Dwarf Euonymus | Viburnum |
| Gardenia fortunei | odoratissimum |
| Gardenia fortunei | Ilex burfordi |
| Gardenia vitchii | Ligustrum lucidum |
| Gardenia stricta nana | Ilex East Palatka |

| Prices of above lining-out stock: | |
|-----------------------------------|------------------|
| | Per 100 Per 1000 |
| 3 to 5 ins., rooted cuttings | \$ 5.00 \$ 40.00 |
| 4 to 6 ins., transplants | 6.00 50.00 |
| 6 to 8 ins., transplants | 10.00 80.00 |
| 8 to 12 ins., transplants | 12.50 100.00 |

| Prices of above lining-out stock: | |
|-----------------------------------|------------------|
| | Per 100 Per 1000 |
| 3 to 5 ins., rooted cuttings | \$ 6.00 \$ 50.00 |
| 4 to 6 ins., transplants | 8.00 75.00 |
| 6 to 8 ins., transplants | 12.50 100.00 |
| 8 to 12 ins., transplants | 15.00 125.00 |

Book your orders early, for complete selection.

FLOWERWOOD NURSERY, INC.
P. O. Box 185 Cairo, Ga.
Phone 2-4021 or write.

| TAXUS | |
|---|-----|
| Cuspidata, transplants, 6 to 8 ins. | 20c |
| Media browni, transplants, 6 to 8 ins. | 25c |
| Media hicksii, transplants, 6 to 8 ins. | 25c |
| 8 to 10 ins. | 35c |

All plants branched and very good root system. Send for list of unusual plants.

Free packing.

ALANWOLD NURSERY
Neshaminy P. O., Bucks County, Pa.

TAXUS CUSPIDATA CAPITATA
FROM SEED
5-yr., T.T.T. grown in nursery rows, 9 to 12 strong plants, 100, \$60.00; 1000, \$500.00. 4-yr., T.T.T. 6 to 9, 100, \$40.00; 1000, \$300.00. \$5.00 samples sent upon request or come and see it. None better grown.

GERARD K. KLYN, INC., MENTOR, O.
Wholesale Rose Growers and Nurserymen

| 2-YR. LINERS FROM SEEDS | |
|-------------------------|---------------|
| | Each 100 1000 |
| Biota aurea nana | \$0.22 \$0.20 |
| Ilex rotundifolia | 22 20 |
| Viburnum burkwoodi | 22 20 |
| Osmanthus americana | 22 20 |
| Nandina domestica | 15 10 |
| Spiraea Anthony Waterer | 15 10 |

NICK'S NURSERY, ANCHORAGE, KY.

FINER LINERS
To buy and grow only select quality plants of the better varieties in good sound business and profitable. Don't fail to check our new catalog of **FINER LINERS**, free copy on request.

JOHN VERMEULEN & SON, INC.
Neshanic Station, N. J.

Heavily rooted cuttings from open sand-pet beds, ready for immediate shipment.
Old English Boxwood, 2 to 3 ins. 4c; 5 to 6 ins., 8c. Ilex burfordi, rooted cuttings, 3c; Ilex rotundifolia, rooted cuttings, 3c. Euonymus patens, 2c. Ligustrum lucidum, 2c.
E. F. DuBose Nursery, Huntville, Ala.

Flowering Quince liners.
Please see complete list on page 81.
Templeton, Phytotelektor, Winchester, Tenn.

MAGNOLIAS

| MAGNOLIA GRANDIFLORA | |
|----------------------|---------------|
| | Each Each |
| 18 to 24 ins. | \$2.00 \$1.90 |
| 2 to 3 ft. | 2.75 2.60 |
| 3 to 4 ft. | 3.75 3.60 |
| 4 to 5 ft. | 5.00 4.75 |

Ask for complete wholesale price list.

WAYNESBORO NURSERIES

Waynesboro, Va.

| MAGNOLIA GRANDIFLORA | |
|-----------------------------|--|
| 4 to 5 ft., balled, \$3.00. | |
| 5 to 6 ft., balled, \$3.50. | |

Priced F.O.B. Memphis. Cash.

MATTHEWS NURSERY

P. O. Box 5592 Memphis, Tenn.

Magnolia grandiflora, 4 to 8 ins., shipped in pots, 2 1/4-in. or removed, \$18.00 per 100. 1-yr. seedlings for spring 1953, about 4 ins. high, \$50.00 per 1000. Cash and no charge for packing.
Harwell Nursery, Van Buren, Ark.

| MAPLES | |
|---------------------------|--|
| Each 2500 or per 100 more | |

JAPANESE RED MAPLE SEEDLINGS (ACER PALMATUM ATROPURPUREUM)
Carefully selected, finest Red Maple. Well-hardened from open field beds, liners and heavy potting grades in large quantities.

| Each 2500 or per 100 more | |
|---|---------------|
| 1-yr. (all red), 8 to 10 ins. | \$0.22 \$0.20 |
| 2-yr. X, light, branched | |
| 8 to 10 ins. | .33 .30 |
| 10 to 12 ins. | .38 .35 |
| 12 to 15 ins. | .46 .42 |
| 2-yr. X, heavy grade, branched transplants | |
| 6 to 8 ins. | \$0.43 \$0.40 |
| 8 to 10 ins. | .48 .45 |
| 10 to 12 ins. | .55 .50 |
| 12 to 15 ins. | .65 .60 |
| 3-yr., XX, branched transplants, ready for 6-in. pots (salable) | |
| 12 to 15 ins. | \$0.80 \$0.75 |
| 15 to 18 ins. | .95 .90 |
| 4 and 5-yr., well-branched, heavy grade | |
| 10 to 12 ins. | \$1.00 \$0.95 |
| 12 to 15 ins. | 1.25 1.18 |
| 15 to 18 ins. | 1.60 1.50 |
| 18 to 21 ins. | 2.00 1.90 |
| 21 to 24 ins. | 2.75 2.60 |

Shipped dormant. Packed in sphagnum.

Late fall or early spring.

2 per cent discount will reserve your order.

HUBBS NURSERIES

Route 130 Riverton, N. J.

Specializing in Japanese Maple seedlings.

RED JAPANESE MAPLE

Your inspection of the plants in foliage is cordially invited.

Per 100 Per 1000

(EACH) (EACH)

*Acer palmatum atropurpureum, selected types, strong 2-yr.

grafts, 12 to 18 ins. \$1.50 \$1.25

*Acer palmatum atropurpureum, pureum, strong 3-yr. grafts. 2.00

*Acer palmatum atropurpureum

BLOODGOOD, 2-yr. grafts,

12 to 18 ins. 1.75

*Acer palmatum atropurpureum

OSSI BENI, 2-yr. grafts,

12 to 18 ins. 1.50

*Acer palmatum atropurpureum

OSSI BENI, 3-yr. grafts .. 2.00

*ITEMS SUITABLE FOR MAIL ORDER

TRADE AND CANNING

C. HOOGEENDOORN, NURSERYMAN

413 Turner Rd. Newport, R. I.

NORWAY MAPLE

Straight trunks. Fine heads. Very fibrous roots.

10-49 50-250

6 to 8 ft. \$ 3.00 \$2.50

8 to 10 ft., 1 to 1 1/4-in. 4.40 3.50

9 to 11 ft., 1 1/4 to 1 1/2-in. 6.00 5.00

10 to 12 ft., 1 1/2 to 1 3/4-in. 8.00 7.00

11 to 13 ft., 1 3/4 to 2-in. 11.00 9.00

PRINCETON NURSERIES

Princeton, N. J.

SILVER MAPLE

Nursery-grown, transplanted.

Per 30-100 Per 1000

1 to 1 1/4-in. cal. \$1.75 \$1.50

1 1/4 to 1 1/2-in. cal. 2.25 1.90

1 1/2 to 2-in. cal. 2.75 2.50

2 to 2 1/4-in. cal. 3.50

R. BRUMOND SMITH NURSERY

R. R. 2, Box 195 Muncie, Ind.

Phone AT 2-5144

SILVER MAPLE

5 to 6 ft. \$0.40

6 to 8 ft. .50

8 to 10 ft. .75

10 to 12 ft. 1.25

CRIMSON DALE NURSERY

Winchester, Tenn.

Acer, saccharum and rubrum, root-pruned, field specimens, 2-in. to 12-in. caliper.

R. H. Rogers Nursery, Cooperstown, N. Y.

SILVER MAPLE, NURSERY-GROWN
NORTHERN ILL. Per 10 Per 100
1 to 1 1/4-in. \$1.75 \$1.25
1 1/4 to 1 1/2-in. 2.25 1.75
1 1/2 to 1 3/4-in. 2.75 2.25
Also available: Sycamore, Chinese Elm.
Will deliver in 50-mile radius of Chicago.
All other orders picked up at nursery.
KINAST NURSERY, R. 173, Antioch, Ill.
2 miles west Route 45. Phone 1040M.

NORWAY MAPLE
Straight nursery-grown trees.
6 to 7 ft. \$1.00
7 to 8 ft. 3.00
8 to 10 ft., 1 to 1 1/4-in. 4.00
9 to 12 ft., 1 1/4 to 1 1/2-in. 5.00
11 to 12 ft., 1 1/2 to 1 3/4-in. 7.00
HEYKOOP'S NURSERY
466 Newark Turnpike
Pompton Plains, N. J.

NORWAY MAPLES
Nursery-grown. Well headed.
2 to 2 1/4-in. cal. \$10.00
2 1/4 to 3-in. cal. 12.00
3 to 3 1/2-in. cal. 14.00
FEENEY'S NURSERY
Bustleton Pike Feasterville, Pa.

COLLECTED ACER
RUBRUM AND SACCHARUM
from whips to 4-in. caliper.
CURTIS NURSERIES, INC.
Callicoon, N. Y.

PACHYSANDRAS

PACHYSANDRAS
Strong rooted cuttings, ready now.
\$4.50 per 100.
\$40.00 per 1000.
\$37.50 per 1000 for 5000 or over.
Shipped prepaid.
Check with order.
No C.O.D.
TOWN & COUNTRY
4202 Fordleigh Rd. Baltimore 15, Md.

PACHYSANDRA TERMINALIS
Per 100 Per 1000
1-yr. plants \$ 5.00 \$42.50
2 1/4-in. pot-grown plants 10.50 95.00
HANSEN BROS. NURSERIES, INC.
1268 Montgomery Ave. Narberth, Pa.

Pachysandras, strong plants, grown in soil frames with light shade. First-class stock.
\$6.00 per 100, \$50.00 per 1000; \$47.50 per 1000 for 5000 or more, including good packing.
Peekskill Nursery, Shrub Oak, N. Y.

PACHYSANDRAS
Strong rooted cuttings, \$4.25 per 100, \$40.00 per 1000.
DUNWOODIE NURSERIES
6 Smart Ave. Yonkers, N. Y.

PACHYSANDRA TERMINALIS
1-yr., field-grown, \$65.00 per 1000.
HILLCREST GREENHOUSES
Miller Park Franklin, Pa.

PEONIES

PEONIES.

Healthy 3 to 5 divisions.

Per 10 Per 100

AURORA, white \$3.50 \$30.00

DAUBENTON, light pink 4.00 35.00

DUKE OF CLARENCE, rose 4.00 35.00

GRANDIFLORA NIVEA PLENA, 4.00 35.00

AUGUSTE LEMONIER, bright red 4.00 35.00

ETTA, pink 4.00 35.00

MME. DE VERNEVILLE, white 4.00 35.00

FELIX CROUSSE, red 4.00 35.00

VENUS, shell-pink 3.50 30.00

FESTIVA LEMONIA, white 4.00 35.00

EDULIS SUPERBA, pink 4.00 35.00

GENERAL BERTRAND, pink 3.50 30.00

COURONNE D'OR, white 4.00 35.00

QUEEN VICTORIA, white 3.50 30.00

THE MOOR, purple 4.00 35.00

CLARA BARTON, white 4.00 35.00

PINK PEONIES, not named 3.00 25.00

WHITE PEONIES, not named 3.00 25.00

RED PEONIES, not named 3.00 25.00

PARKER'S PEONY FARM AND NURSERY

Fayetteville, N. Y.

PEONIES

Strong 3 to 5-eye divisions.

Per 10 Per 100

Longfellow, red \$0.60 \$0.55

Martha Bulloch, fine pink .65 .50

Mons. Jules Elie, early pink .40 .35

Richard Carvel, best early red .70 .65

Double red or pink .30 .25

Cash. Packing free. F.O.B. Marshalltown.

WHEELOCK WILSON NURSERY

Marshalltown, Ia.

PEONIES

Adolph Rouseau, Baroness Schroeder.

Duchesse de Nemours, Festiva Maxima.

Sarah Bernhardt, Lady Alex. Duff, Marie Le-

molne, Mons. Jules Elie, Reine Hortense.

3-yr.-old whole clumps, not divided, 6

eyes and up, \$75.00 per 100, \$700.00 per 1000;

divisions, 3 to 5 eyes, \$40.00 per 100, \$350.00

per 1000.
VERKADE'S NURSERIES, WAYNE, N. J.

PEONIES

Strong 3 to 5-eye divisions from young plants. Deliveries being made now. Packing free for cash with order, otherwise at cost.

| | | |
|---|-------|-----|
| Canari, sulphur-white | 3.50 | 35 |
| Duc de Cazes, carmine-red, rose center | 3.50 | 30 |
| Duchesse de Nemours, ivory-white | 3.50 | 30 |
| Duchesse d'Orleans, soft pink | 3.50 | 25 |
| Duke of Wellington, pure white | 3.50 | 30 |
| Edulis Superba, excellent deep pink | 3.50 | 25 |
| Pelux Crouse, ruby-red | 4.00 | 35 |
| Festiva Maxima, white, center | 4.00 | 35 |
| Recked red | 4.00 | 35 |
| Fontenelle, excellent medium dark red | 4.00 | 35 |
| Fragrans, medium to dark rose-pink | 3.50 | 30 |
| Francisco Ortega, crimson | 4.00 | 30 |
| Karl Rosenfeld, velvety dark crimson | 4.50 | 40 |
| La Perle, light old-rose pink | 4.00 | 35 |
| Le Cygne, top rated pure white | 15.00 | 100 |
| Lillian Wild, very large, flesh to white | 4.50 | 40 |
| Mme. Ducl, bright silvery pink | 4.00 | 35 |
| Mme. de Verneville, very fragrant | 4.00 | 35 |
| Marguerite Gerard, hydrangea-pink | 4.00 | 35 |
| Masterpiece, large brilliant cerise | 4.00 | 35 |
| Mons. Jules Elie, large pink | 4.00 | 35 |
| Ozark Beauty, late radiant pink | 4.00 | 30 |
| Queen Victoria, flesh-white, cream center | 3.50 | 25 |
| Queen Emma, large satiny pink | 3.50 | 30 |
| Red Rocket, bright deep pink | 4.50 | 40 |
| Sarah Bernhard, appleblossom-pink | 5.00 | 40 |
| Umbellata rosea, violet rose-pink | 4.00 | 35 |
| Venus, large hydrangea-pink | 4.00 | 35 |
| Officialis rubra, early bright red | 7.00 | 60 |
| Mixed Peonies, grown mixed | 2.50 | 25 |
| Mixed Peonies, to color, not named | 3.00 | 25 |
| White Peonies, to color, not named | 3.00 | 25 |
| Red Peonies, to color, not named | 3.00 | 25 |
| Single Red Peony, single flowering | 4.00 | 30 |

Peony liners available. Write for quotations. Rate: 50¢ a variety at 10 rate; 25¢ a variety at 100 rate.

Send for our complete list of Peonies, Irises and Hemerocallis.

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Wild Bros. Nursery Co. Phone 43 Sarcoxie, Mo.

WILSON AND FERN-LEAVED PEONIES

SPECIES AND CUT-FLOWER PEONIES.

ATHA GARDENS, WEST LIBERTY, O.

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PINK CREEPING PHLOX
Hardy, from Traverse City, Mich.
World's best cherries. The finest Phlox.
Big clumps, all over 200 sq. ins.
Many doz. plants from each clump.
Shipment at once. Free packing, \$1.00 each.

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Adjoins State Park
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HARDY PHLOX
Ask for our new listing on field-grown garden Phlox and Phlox subulata (Creeping Phlox). If interested in 5000 or more plants ask for our special quantity discount.

WALTERS GARDENS
Zeeland, Mich.

PHLOX
If interested in Phlox and other perennials, please send for list.

HENRY LE POIRE, R. 2, Zeeland, Mich.
If you don't find it listed here try a Want Ad in the next issue of the American Nurseryman.

PIERIS

PIERIS JAPONICA
Choice liners
from open field blocks. Each

| | |
|---------|--------|
| 4 to 6 | \$0.20 |
| 6 to 8 | .30 |
| 8 to 12 | .40 |

10 per cent discount per 1000.
1958 FALL ONLY.

2 to 6, 1-yr., transplants .15
Well-branched. Good color.

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Pieris japonica (Jap. Andromeda), strong rooted seedlings, 1 to 2 ins., \$6.00 per 100, \$5.00 per 1000. 2-yr. transplants, 6 to 9 ins., \$40.00 per 100, \$350.00 per 1000. Heavy field-row stock, 3 yrs. old, 9 to 12 ins., ready for mail order, canning or sales yard; heavy bare-root, \$1.00 each, per 100; 85¢ each, per 1000; 65¢ each, per 5000 and up. No packing charges.

Cedarhurst Nurseries, Inc., 3044 Pawtucket Ave., East Providence, R. I.

ANDROMEDA (PIERIS JAPONICA)

One of the most beautiful broad-leaved

Evergreen. Per 100 Per 1000

2 to 3-in., 1-yr., T. 2.00 25.00

2 to 5-in., 1-yr., T. 14.00 120.00

6 to 8-in., 2-yr., TT. 20.00 190.00

PLANE VIEW NURSERY

1555 W. Main Rd. Newport, R. I.

Pieris floribunda, field-row, 3 yrs. old, 9 ins., real nice bushy plants, ready for mail order or sales yard; bare-root, \$1.00 each, per 100; 85¢ each, per 1000.

Cedarhurst Nurseries, Inc., 3044 Pawtucket Ave., East Providence, R. I.

POPPIES

10,000 ORIENTAL POPPIES
Finest quality. Heavy field-grown.

| | | | |
|---------------------------------------|----------|--------|------|
| CARMEN, New, Dark cardinal-red | Doz. 100 | \$5.00 | \$35 |
| CARNIVAL, New, Red and white | 5.00 | 35 | |
| GOLD OF OPHIR, Golden orange | 3.30 | 22 | |
| HELEN ELIZABETH, Soft pink | 3.30 | 22 | |
| INDIAN CHIEF, Mahogany | 3.60 | 25 | |
| MAY CURTIS, True watermelon-red | 7.00 | 50 | |
| MAY SADLER, Crinkled salmon-pink | 3.30 | 22 | |
| SALMON GLOW, Dbl. salmon-orange | 3.30 | 22 | |
| SALOME, French-rose | 3.60 | 25 | |
| CURTIS SALMON PINK, 3-fl. stems | 3.60 | 25 | |
| SULTANA, Watermelon-pink, Long season | 3.60 | 25 | |

Write for large quantity quotations.

BENTLEY'S HARDY PLANTS

2559 Mentor Ave. Mentor, O.

PRIVET

Thousands of Amur River North Privet.

Per 100 Per 1000

12 to 24 ins. \$3.00 \$25.00

2 to 3 ft. 4.00 30.00

3 to 4 ft. 5.00 40.00

Immediate shipment. Satisfaction guaranteed. Robinson Nursery Co., Greenville, Ga.

RHODODENDRONS

FIFTY THOUSAND OWN-ROOT RHODODENDRONS

A wide range of hardy varieties in 1, 2 and 3-yr. plants. Come and see for yourself to compare quality and prices, or just come and talk Rhododendrons, if you prefer.

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Phone SHadyside 1-0180

DEXTER HYBRID RHODODENDRONS

Seedlings, mixed, mostly pinks; very fine, hardy, 2 1/2-in. neat pots, 2 to 5 ins. tall, \$35.00 per 100; 3-in. pots, 4 to 8 ins. tall, \$75.00 per 100; 3-gal. container-grown, \$150.00 per 100, on pickup.

NORTH SHORE GARDENS

13 Spring St. Ipswich, Mass.

RHODODENDRONS

HYBRID RHODODENDRONS

Landscape sizes

Different colors.

PARMENTIER ROSES

Grady St. Bayport, L. I., N. Y.

Phone Bayport 2-0811

HYBRID RHODODENDRONS

We have a beautiful selection of extra heavy plants in various sizes. Heavily budded. Various colors. Special prices on fall and spring orders placed now.

RICKERT NURSERIES

Box 120 Morrisville, Pa.

HYBRID RHODODENDRONS

LITTLE TREE NURSERIES

Rowley, Mass.

For \$4.00

you can offer that surplus in a classified ad of 10 lines on these pages—quickly and easily turning stock into cash.

At 40c PER LINE

you can keep a list of specialty items before trade buyers through the selling season at small cost.

Send your copy (count 6 average words to line) for the November 1 issue to reach us by October 10.

Forms for the November 15 issue will close October 24.

AMERICAN NURSERYMAN

343 S. Dearborn St. CHICAGO 4, ILL.

100,000 hybrid Rhododendrons, 2000 varieties. Liners, 12 to 15 ins., \$1.20 up; 15 to 18 ins., \$2.95. Bigger sizes up to 3 ft. Also all other nursery items.

Kordus Nursery, Deer Park Ave., R. 4, Box 152, Huntington, N. Y.

RHODODENDRON MAXIMUM

Nursery-grown and collected, 2 to 7 ft.

high. Well-shaped, symmetrical plants.

CURTIS NURSERIES, INC.

Callicoon, N. Y.

ROSEBUSHES

MULTIFLORA ROSE

Top quality plants for living fences and conservation plantings.

Approximate

caliper height Per 1000

2 to 3 mm. 8 to 15 ins. \$12.50

3 to 6 mm. 12 to 18 ins. 17.50

3 to 8 mm. 12 to 24 ins. 22.50

6 to 12 mm. 18 to 36 ins. 38.50

UNDERSTOCK, Straight shanked seedlings grown especially for understock, Nemato-free. Expertly graded to suit the most particular.

4 to 6 mm. \$27.50 per 1000

2 to 4 mm. 17.50 per 1000

The above prices are F.O.B. Griggsville, Ill., nursery. All tops cut back to 10 ins. at shipping unless otherwise requested. Our storage facilities are the best. ORDER NOW for delivery this fall, winter or spring. 10 per cent discount in lots of 10,000 or over; special quotations on larger quantities. For less than 1000 add 30 per cent. Packing at cost. 10 per cent off for fall delivery, in lots of 10,000 or more.

FARM LANDSCAPE CO.

Route 3 Urbana, Ill.

MINIATURE ROSES

Beautiful little darlings like miniature Hybrid Teas, seldom over 10 ins. tall. The plants we sell are own-root from 2 1/2-in. pots.

Variety Per 10 Per 100

Juliette, large crimson \$4.00 \$35.00

Midget (pat. 466), rose-red 4.50 40.00

Tom Thumb (pat. 169), crimson 4.50 40.00

Perla d'Alcanada, ruby-red 4.00 35.00

Peggy Grant, P.R.R., rose 4.00 35.00

Pink Joy (pat. 1378), pink, gold center 4.50 40.00

Patty Lou (pat. 1335), silvery pink 4.50 40.00

Pixie (pat. 408), tiny white 4.50 40.00

White Baby Star, white 4.00 35.00

Snowflakes, white 4.00 35.00

Presumida, like Talisman 4.00 35.00

Jackie, gold and cream 4.50 40.00

Baby Gold Star, gold 4.50 40.00

SPRING HILL NURSERIES CO.

Dept. AN-12 Tipp City, O.

ROSEBUSHES

2-YR. PLANTS

Grown, graded and packed to perfection. 246 varieties and 12 different types to choose from.

WRITE TODAY FOR PRICES AND YOUR REQUIREMENTS NOW!

ROSEMONT NURSERIES

D. L. Thompson, Owner

Dept. AN Tyler, Tex.

ROSES

The BEST of the old, the NEWEST of the new.

A. A. R. S. WINNERS! STARFIRE and IVORY FASHION. Naturally matured, carefully harvested and generously graded. Catalogs now available. Buy the best. "BUY KLYN."

GERARD K. KLYN, INC., MENTOR, O.

Wholesale Rose Growers and Nurserymen IN THE HEART OF FAMOUS LAKE CO.

THE SEASON'S BEST DEAL

See for yourself by

sending for our 1957-58 trade list.

WE STILL OFFER YOU A CHOICE OF BARE-ROOT AND PREPACKAGED, PATENT AND STANDARD ROSES.

NEW LONDON ROSES

"The Rose Nursery"

P. O. Box 876 Overton, Tex.

FOR SUPERIOR ROSEBUSHES

SEE "HAND the Rosebush Man." The best source of quality-grown Rosebushes at competitive prices. Satisfaction guaranteed.

Standard and patented varieties.

Bare-root Roses (Ind. tagged, optional).

Packaged Roses (non-waxed and waxed).

WRITE FOR 1958-59 PRICE LIST.

HAND ROSE FARMS

Dallas Hwy. Lyric 4-9088 Tyler, Tex.

ROSEBUSHES

A WIDE ASSORTMENT OF REASONABLY PRICED HIGH-QUALITY ROSEBUSHES

WITH FAST, COURTEOUS SERVICE

IS WHAT YOU GET AT

MARTIN'S ROSE NURSERY

P. O. Box 155 Arp, Tex.

Phone UL-92191

(A copy of our 1957-58 price list will be mailed to you upon request.)

ROSEBUSHES—Continued

ROSES
Our own field-grown Rosebushes for early winter. Standard var. No. 1, 50c; No. 1½, 40c. Patented var. available at fixed prices. Budded on seedlings with a fine root system. Ideal for potting or home plantings.
DANEGGER'S HI-WAY NURSERY, INC.
Box 336 Milford, Del.

FIELD-GROWN ROSEBUSHES
FINEST QUALITY.
Hybrid Teas, floribundas, polyanthas and climbers.
Price and variety list on request.
WELLS BROS. NURSERY
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SHRUB AND TREE SEEDS

For nurserymen,
conservation, Christmas tree growers
and others.
Write for wholesale price list.
WOODLOT SEED CO.
Norway, Mich.
Established 1936.

TREE SEEDS

Quercus palustris, *Quercus macrocarpa*,
Quercus alba, *Hicoria laciniosa* and *Hicoria*
Pecana.

All F.O.B. Sumner, Mo.
Order now to ensure delivery
for fall planting.
Write for prices.
B. H. JOHNSON, SUMNER, MO.

CHINESE CHESTNUTS

Castanea mollissima
Grown from selected stock.
Order now for fall delivery.
Expect to have several tons.
Less than 100 lbs., 35c per lb.
100 lbs. and over, 30c per lb.

KING'S NURSERY

Drawer 1431 Auburn, Ala.

Seeds: *Ligustrum*, *japonicum*, *lucidum*,
amurensis, also *Nandina domestica*, \$1.00 per
lb. *Cherry Laurel*, lb., 75c. *Chinese Chest-*
nuts, lb., 35c. We have grown this strain
for over 30 years and no blight has ever
shown up. Cash. We do not ship C.O.D.
Mountville Nurseries, Mountville, Ga.

SHRUBS AND TREES

| SHRUBS AND TREES | Per 100 |
|---|----------|
| <i>Euonymus alatus</i> comp., 12 to 15 ins. | \$ 60.00 |
| 15 to 18 ins. | 70.00 |
| 18 to 24 ins. | 95.00 |
| vegetus, 10 to 12 ins. | 60.00 |
| 12 to 15 ins. | 75.00 |
| 15 to 18 ins. | 100.00 |
| <i>Ilex convexa</i> , container, 12 ins. | 85.00 |
| container, 15 ins. | 95.00 |
| <i>Lilac</i> , French hybrid, 12 to 15 ins. | 35.00 |
| 15 to 18 ins. | 50.00 |
| 18 to 24 ins. | 60.00 |
| 2 to 3 ft. | 75.00 |
| List of varieties on request. | |
| <i>Taxus</i> , browni, 5-yr., TT, 8 to 10 ins. | 70.00 |
| 5-yr., TT, 10 to 12 ins. | 80.00 |
| cupidata, 5-yr., TT, 8 to 10 ins. | 65.00 |
| 5-yr., TT, 10 to 12 ins. | 75.00 |
| container, 12 ins. | 135.00 |
| container, 15 ins. | 210.00 |
| 1-yr., T. | 16.00 |
| 2-yr., T. | 24.00 |
| hickai, 5-yr., TT, 8 to 10 ins. | 70.00 |
| 5-yr., TT, 10 to 12 ins. | 80.00 |
| container, 12 to 15 ins. | 165.00 |
| container, 15 to 18 ins. | 220.00 |
| B&B, 15 to 18 ins. | 300.00 |
| <i>Thuja globosa</i> , container, 10 to 12 ins. | 110.00 |
| container, 12 to 15 ins. | 155.00 |
| B&B, 15 to 18 ins. | 200.00 |
| B&B, 18 to 24 ins. | 280.00 |
| 2 per cent for cash with order. | |

LINCOLN NURSERY
R. D. 2 Grand Rapids 4, Mich.

AMUR RIVER PRIVET
1-yr., 9 to 18 ins., 2 canes or more,
\$35.00 per 1000.
These have been cut back twice, branched
excellent. Plants are the best we have ever
grown.

LOMBARDY POPLAR
2-yr., heavy branched,
4 to 5 ft. 40c each
5 to 6 ft. 50c each
6 to 8 ft. 60c each
Packing at cost.

PAUL'S NURSERY
R. F. D. 3 Shelby, O.

NEW JERSEY B&B
SCOTCH LABURNUM (L. alpinum)
and **WHITE-FLOWERING DOGWOOD**
4 to 5 ft. \$2.00
5 to 6 ft. 2.50

DECIDUOUS HOLLY with berries
3 to 4 ft. \$1.50
HOLLY HILL FARM NURSERY
Ellisdale Rd. Allentown, N. J.
Phone Clearwater 9-2284

HEDGES

| | |
|---|-------------|
| 1400 Barberry, Greenleaf, 24 to 30 ins. | Each \$0.45 |
| 500 Barberry, Redleaf, 18 to 24 ins. | .45 |
| 2200 Privet, A.R., ext. hvy., 18 to 24 ins. | .15 |
| 600 Privet, Border, 3 to 4 ft. | .40 |

SHADE TREES

| | |
|--|--------------|
| 40 Birch, European Wh., B&B, 2 ins. | Each \$10.00 |
| 50 Butternut, B&B, 1½ to 2 ins. | 10.00 |
| 200 Chestnut, Chinese, 6 to 8 ft. | 3.00 |
| 100 Linden, American, 6 to 8 ft. | 2.50 |
| 150 Maple, Crimson King, 1 to 1½ ins. | 6.50 |
| 150 Mountain Ash, European, 6 to 8 ft. | 2.00 |
| 200 Sourwood, B&B, 2 to 3 ft. | 2.50 |
| 100 Plane Tree, London, 1½ to 2 ins. | 5.25 |
| 125 Sweet Gum, B&B, 6 to 8 ft. | 4.75 |
| 500 Sycamore, 6 to 8 ft. | 1.50 |
| 150 Tulip Tree, B&B, 5 to 6 ft. | 4.00 |
| 50 Walnut, Black, B&B, 6 to 8 ft. | 4.00 |
| 200 Willow, Weeping, green, 6 to 8 ft. | 1.25 |

SHRUBS

| | |
|--|-------------|
| 100 Chionanthus virg., 18 to 24 ins. | Each \$0.75 |
| 100 Cotoneaster divaricata, B&B, | 2.00 |
| 3 to 4 ft. | 2.00 |
| 250 Deutzia lemoinei, 15 to 18 ins. | .40 |
| 250 Deutzia scabra, 5 to 6 ft. | .50 |
| 100 Dogwood, Redtwig, 3 to 4 ft. | .50 |
| 300 Forsythia Arnold's Dwarf, | .35 |
| 12 to 18 ins. | .35 |
| 700 Forsythia Spring Glory, 3 to 4 ft. | .60 |
| 300 Honeysuckle, Clavey's, 15 to 18 ins. | .35 |
| 1200 Honeysuckle, Sabell, 2 to 3 ft. | .40 |
| 250 Hydrangea P.G., 2 to 3 ft. | .50 |
| 1000 Hypericum (St. Johns Wort), | .30 |
| 15 to 18 ins. | .30 |
| 200 Lilac, hybrids, 2 to 3 ft. | 2.00 |
| 300 Lilac, Persian, 3 to 4 ft. | .50 |
| 250 Lilac, Persian, 4 to 5 ft. | .60 |
| 50 Lilac, Japanese Tree, 4 to 5 ft. | 1.10 |
| 600 Mock Orange, virginialis, 2 to 3 ft. | .45 |
| 200 Mock Orange, virginialis, 3 to 4 ft. | .55 |
| 50 Photinia, Oriental, B&B, 4 to 5 ft. | 2.25 |
| 400 Spiraea A. Waterer, 18 to 24 ins. | .50 |
| 350 Spiraea, White, 8 to 10 ins. | .40 |
| 300 Spiraea prunifolia plena, 2 to 3 ft. | .50 |
| 800 Spiraea vanhouttei, 3 to 4 ft. | .40 |
| 100 Viburnum molle, 3 to 4 ft. | .55 |
| 200 Viburnum opulus nanum, | .85 |
| 15 to 18 ins. | .85 |
| 100 Viburnum opulus, 4 to 5 ft. | .70 |
| 100 Viburnum tomentosum, 2 to 3 ft. | .50 |
| 100 Viburnum wrightii, 3 to 4 ft. | 1.50 |
| 100 Witch Hazel, 2 to 3 ft. | .40 |

Write for complete list.

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Corlies Ingels

140 miles southwest of Chicago

at junction of Rt. 17 and 78 in Stark County

Since 1887

LaFayette, Ill.

ROOTED CUTTINGS, 1-YR., REDDED

| ROOTED CUTTINGS, 1-YR., REDDED | Per 100 | Per 1000 |
|---|---------|----------|
| <i>Buxus sempervirens</i> , 4 to 6 ins. | \$10.00 | \$ 90.00 |
| <i>Ilex bullata</i> , 4 to 6 ins. | 10.00 | 90.00 |
| <i>Juniper</i> , Andorra, 4 to 8 ins. | 12.00 | 100.00 |
| <i>Pyracantha lalandi</i> , 4 to 6 ins. | 10.00 | 90.00 |
| <i>Chamaecyparis squarrosa</i> Veltch, | 12.00 | 100.00 |
| 4 to 6 ins. | 12.00 | 100.00 |
| <i>Chamaecyparis pisifera aurea</i> , | 12.00 | 100.00 |
| 4 to 6 ins. | 12.00 | 100.00 |
| <i>Chamaecyparis lutescens</i> , | 10.00 | 90.00 |
| 4 to 6 ins. | 10.00 | 90.00 |
| <i>Juniperus betula</i> , 4 to 6 ins. | 12.00 | 100.00 |
| <i>Juniperus pfitzeriana</i> , 4 to 6 | 12.00 | 100.00 |
| <i>Juniperus stricta</i> | 12.00 | 100.00 |
| <i>Pachysandra</i> | 4.00 | 35.00 |
| <i>Pyracantha lalandi</i> , potted | 15.00 | 100.00 |
| <i>Retinospora plumosa aurea</i> , | 10.00 | 90.00 |
| <i>Retinospora plumosa</i> | 10.00 | 90.00 |
| <i>Retinospora pumila</i> | 10.00 | 90.00 |
| <i>Taxus brevifolia</i> , 4 to 6 ins. | 10.00 | 100.00 |
| <i>Taxus capitata</i> , tips, 6 to 8 ins. | 15.00 | 125.00 |
| <i>Taxus cuspidata</i> , 4 to 6 ins. | 12.00 | 100.00 |
| <i>Taxus hatfieldi</i> , 4 to 6 ins. | 12.00 | 100.00 |
| <i>Taxus hicksi</i> , 4 to 6 ins. | 12.00 | 100.00 |
| <i>Thuja globosa</i> , 5 to 8 ins. | 12.00 | 100.00 |
| <i>Thuja pyramidalis</i> , 4 to 6 ins. | 10.00 | 90.00 |
| <i>Thuja nigra</i> , 5 to 8 ins. | 10.00 | 90.00 |

2-YR., BEDDED

| | | |
|--|---------|----------|
| <i>Taxus cuspidata</i> | \$25.00 | \$200.00 |
| <i>Taxus hicksi</i> | 25.00 | 200.00 |
| <i>Ilex bullata</i> | 20.00 | 150.00 |
| <i>Chamaecyparis cyano viridis</i> , | 20.00 | 150.00 |
| 4 to 6 ins. | 20.00 | 150.00 |

1-YR. SEEDLINGS

| | | |
|---|---------|---------|
| <i>Cornus florida</i> | \$ 5.00 | \$40.00 |
| <i>Taxus capitata</i> | 5.00 | 40.00 |
| <i>Chinese Chestnut</i> , 18 to 24 ins. | 10.00 | 75.00 |

2-YR. SEEDLINGS

| | | |
|---|---------|----------|
| <i>Acer palmatum</i> , 6 to 12 ins. | \$ 8.00 | ... |
| <i>Fagus sylvatica</i> , 8 to 12 ins. | 10.00 | \$90.00 |
| <i>Chinese Chestnut</i> , 18 to 30 ins. | 15.00 | ... |
| <i>Taxus capitata</i> , 4 to 6 ins. | 7.00 | 60.00 |
| 2-YR. SEEDLINGS, TRANSPLANTED | ... | ... |
| <i>Taxus capitata</i> , 5 to 8 ins. | \$12.00 | \$100.00 |

4-YR. SEEDLINGS, TRANSPLANTED

| | | |
|--|---------|----------|
| <i>Picea pungens glauca</i> , | ... | ... |
| 6 to 10 ins. | \$12.00 | \$100.00 |
| <i>Tsuga canadensis</i> , 5 to 8 ins. | 10.00 | 95.00 |
| <i>Tsuga canadensis</i> , 10 to 12 ins. | 15.00 | 140.00 |
| <i>Tsuga canadensis</i> , 10 to 12 ins. | 20.00 | 190.00 |
| <i>Thuja occidentalis</i> , 8 to 12 ins. | 12.00 | ... |
| <i>Taxus capitata</i> , 6 to 10 ins. | 15.00 | ... |
| <i>Pinus strobus</i> , 8 to 10 ins. | 10.00 | 100.00 |
| <i>Leucothoe catesbaei</i> , 8 to 12 | 35.00 | ... |

VAN DINE NURSERY

287 Berdan Ave. Preakness, N. J.

Euonymus vegetus, staked upright; heavy

2-yr., field-grown, 15 to 18 ins. tall, 40c each;

35c each in 100 lots. *Hydrangea Nikko Blue*,

heavy 2-yr., field-grown, 5 canes and over,

30c each; 25c in 100 lots. *Crystal Spring*

Gardens. North Ridge Rd., Perry, O.

LANDSCAPE MATERIAL

| | |
|--|---------------|
| <i>Acer palm. atropurpureum nigrum</i> , 2 to 2½ | ft. |
| <i>Berberis thunb. atropurpureum</i> , 15 to 18 ins. | 18 to 24 ins. |
| <i>Cornus florida rubra</i> , 3 to 4 ft. | |
| <i>Cotoneaster divaricata</i> , 9-in. Bird pots, 2½ | to 3 ft. |
| <i>Cotoneaster praecox</i> , 7-in. pots, 12 to 15 ins. | |
| <i>Cotoneaster horizontalis</i> , 7-in. pots, 15 to 18 | ins. |

Forsythia int. spectabilis, 3 to 4 ft., 4 to 5 ft.

Forsythia Lynwood Gold, heavy, 4 to 5 ft.,

5 to 6 ft.

Forsythia Spring Glory, heavy, 4 to 5 ft.,

5 to 6 ft.

Ligustrum ovalifolium, 2-yr., 2 to 3 ft., 3 to

4 ft.

Ligustrum ovalifolium, 3-yr., 4 to 5 ft.

Salix niobe, 10 to 12 ft., 1½ to 1¾-in. cal.

Weigela vanickei, extra heavy, 5 to 6 ft.

Weigela rosea, extra heavy, 5 to 6 ft.

Forsythia Lynwood Gold, 2-yr., hardwood

cuttings, 2 to 3 ft., 3 to 4 ft.

Forsythia Spring Glory, 2-yr., hardwood cuttings,

2 to 3 ft., 3 to 4 ft.

Weigela vanickei, 2-yr., hardwood cuttings,

2 to 3 ft., 3 to 4 ft.

Prices on request.

RAMP NURSERY SALES, INC.

233 Hempstead Ave., West Hempstead, N. Y.

Phone IVanhoe 6-3363

ARBORVITAE

American, 2½ to 4½ ft., \$1.75 to \$2.50.

Baker, 2 to 3½ ft., \$1.50 to \$2.00.

Elegantissima, 2 to 3½ ft., \$1.75 to \$2.25.

Globe, 1 to 2½ ft., \$1.50 to \$2.00.

Golden, 1½ to 3 ft., \$1.50 to \$2.00.

Biota aurea nana, 1 to 2½ ft., \$1.50 to \$2.00.

JUNIPERS

Andorra, 1 to 2½ ft., \$1.75 to \$2.25.

Burk, 2 to 4½ ft., \$1.75 to \$2.75.

Irish, 2½ to 4 ft., \$1.75 to \$2.25.

Swedish, 2½ to 4 ft., \$1.75 to \$2.25.

Pfitzer, 1 to 3 ft., \$1.75 to \$2.50.

Golden Tip, 1 to 3 ft., \$1.75 to \$2.50.

Hetz (glauca), 1 to 2½ ft., \$1.75 to \$2.25.

Armstrong, dwarf, 1 to 2½ ft., \$2.00 to \$2.50.

Blue, 1 to 2½ ft., \$1.75 to \$2.25.

Von Ehron, 1 to 2½ ft., \$1.75 to \$2.25.

YEWES

Hicks, 1 to 2½ ft., \$2.00 to \$3.00.

Spreading, 1 to 2 ft., \$2.00 to \$3.00.

Columnar (Adams), 1 to 4 ft., \$4.00 to \$8.00.

Sugar Maple, 1 to 3-in. cal., \$1.50 to \$7.50.

Chinese Elm, 1 to 3-in. cal., \$1.00 to \$5.00.

FOUST BROS. NURSERY

507 W. Eaton Pike Richmond, Ind.

HOLLY

Each, per 100

Ilex crenata (Japanese Holly), B&B

2 to 2½ ft. \$4.00

2½ to 3 ft. 5.00

3 to 3½ ft. 6.25

3½ to 4 ft. 7.25

4 to 5 ft. 9.00

Ilex crenata (spreading type), B&B

15 to 18 ins., spreading \$3.00

18 to 24 ins., spreading 3.50

2 to 2½ ft., spreading 5.00

2½ to 3 ft., spreading 5.00

MAPLES

Each

NORWAY (straight trees),

well-headed, bare-root,

1½ to

| ALPINE CURRANT | | |
|-----------------------------|-------|---------------|
| Each. 100 | 1000 | |
| 6 to 12 ins., T. lining-out | ..... | \$0.12 \$0.11 |
| 9 to 12 ins. finished | ..... | .25 .20 |
| 12 to 15 ins. | ..... | .40 .35 |
| 15 to 18 ins. | ..... | .50 .45 |
| 18 to 24 ins. | ..... | .60 .55 |
| 24 to 30 ins. | ..... | .80 .75 |

Euonymus alatus, heavy, from cuttings
18 to 24 ins. \$1.40
24 to 30 ins. 1.65

Siberian Arborvitae (B&B)
15 to 18 ins. \$3.00
18 to 24 ins. 3.75 \$3.25
24 to 30 ins. 4.50

Hard Maple, straight, nursery-grown transplants
4 to 5 ft. \$1.00 \$0.90
5 to 6 ft. 1.35 1.25
6 to 8 ft. 1.75 1.65

Hemerocallis Yellowstone, 60c each, per 100.
RED WING NURSERY, RED WING, MINN.

Norway Maple, 1½-in. cal., \$6.00; 1½-in. cal., \$8.00 each.
Sugar Maple, 1½-in. cal., \$7.00; 2-in. cal., \$15.00.

Clump European White Birch, 10 to 12 ft., 10, \$45.00.
Cut-leaved Weeping Birch, 10 to 12 ft., 10, \$52.00.

Flowering Crab, heavy, 5 to 8, 10, \$40.00.
Bearing-size fruit trees, 10, \$25.00.
Dwarf Apples, transplanted, 10, \$22.00.

Amur River Privet, heavy 4 to 5 ft., 100, \$35.00.
Pickup at nursery or will deliver at cost.

Also Lilacs, Spiraeas, Forsythias, Roses, perennials, etc.
Finerty's Nursery, Rensselaer, N. Y.

Mountain-grown, dwarf Mahonia aquifolium, 1958 seed, from selected plants under 15 ins. Rock special. 100 seeds, \$2.50; under 24 ins., \$5.00 per oz. Regular dwarf selection, most plants under 24 ins., \$3.50 per oz.; 4 ozs., \$5.00; 1 lb., \$25.00.

All seed from inspected U.S.D.A. areas. Fields are subject to temperatures minus 30 to plus 100 degrees. Rainfall 17 ins. Ideal broad-leaved Evergreens, any climate.

Plants from dwarf mountain-grown seed. 1-yr., \$12.00; 2-yr., transplanted, \$20.00, prepaid.

Cash with order. Stock may be returned in 5 days. Old established nursery, 25 years N. E. Washington.

Mayhan Nursery, Veradale, Wash.

EVERGREENS, WHOLESALE
A wide selection of Evergreen seedlings and transplants, also hardwoods, shade trees, ornamentals, shrubs and flowering trees. Our selected seed with good heredity and scientific culture assures healthy trees with heavy roots for rapid growth.

Mummer offers quality trees at a price made possible through large quantity production. No charge for packing and boxing. Ask for complete catalog and wholesale planting lists.

Our ad, which appears on page 20 of this issue, shows a partial list of seedlings and transplants.

MUSSER FORESTS
Box 16-JC Indiana, Pa.

SHRUBS AND TREES
Ulmus carpinifolia sarniensis, 2½ to 6 ins. Fraxus sylvatica, 2 to 3½ ins.

Acer rubrum, 2½ to 4 ins.
Acer platanoides, 2 to 4 ins.
Viburnum wrightii, 8 to 9 ft.
Salix niobe, 2 to 4 ins.

Malus sargentii, 6 to 7 ft.
Malus floribunda, pink and white, 6 to 7 ft.
Malus hoppi, 8 to 10 ft.
Malus eleyi, 8 to 10 ft.

Cornus florida, single stems, 6 to 7 ft. heads
WM. V. GROEPLER
Fiddler's Bow Nursery
Nine Brook Rd., N. J. route 202
Bernardsville, N. J.

PINK DOGWOOD
Heavy branched, 4 to 6 ft., B&B, \$1.00 per ft.

TAXUS
Capitata, cuspidata, thayerae, 5 and 6-yr., B&B, \$2.00 each.

TAXUS LINERS
Henryi, thayerae, hicksii, etc.
3-yr., bedded, \$30.00 per 100.
4-yr., bedded, \$40.00 per 100.

Also a variety of other plant material for landscape work. All orders to be picked up at our nursery.

KERSBERGEN NURSERIES
1707 Springfield Ave. New Providence, N. J.

B&B STOCK
100 Dogwood, white, 6 to 8 ft. \$ 7.50
100 Dogwood, white, 8 to 10 ft. 10.00
350 Ilex rotundifolia, 15 to 18 ins. 3.00
150 Ilex rotundifolia, 18 to 24 ins. 4.00
300 Canada Hemlock, 18 to 24 ins. 2.50
200 Canada Hemlock, 24 to 30 ins. 3.00

Heavy, sheared stock to 15 ft. height.
SOERGER TREE SERVICE
Babcock Blvd. Gibsonia, Pa.

Pyracantha Islandi, Jasminum nudiflorum, rooted cuttings, \$10.00 per 100. Ivy, Vinca minor, Yews, golden var. Privet, golden var. Honeysuckle. Write for list.

Bart's Nursery, Fullerton, Pa.

EUONYMUS VEGETUS
Heavy, well-sheared.
Bare-root, 15 to 18 ins., \$1.00; 18 to 24 ins., \$1.25. (Balled and burlaped 35c per plant extra.)

CORNUS FLORIDA
(White-flowering Dogwood)
B&B, 2 to 3 ft., \$1.50; 3 to 4 ft., \$1.75; 4 to 5 ft., \$2.25.

JUNIPERUS heterophylla, B&B, 15 to 18 ins., \$1.90.
BIOTA aurea nana, B&B, 12 to 15 ins., \$2.00.
ARBORVITAE, globe, B&B, 12 to 15, \$1.50.

THE FRENCH NURSERY CO.
Since 1863 Clyde, O.

HAWTHORNS
3 to 9 ft., also specimens (catagus).
Balled and burlaped to your specifications.

SHADE TREES
Pin Oak and Sycamore, 2 to 4-in.

Write for quantity prices.
Delivered Chicago area.
COX TREE SERVICE

625 William St. Over Forest, Ill.
Phone Forest 9-7101.

SURPLUS STOCK
10,000 Chinese Elm, excellent quality.
5 to 6 ft. \$ 50.00 per 100
6 to 8 ft. 75.00 per 100
8 to 10 ft. 100.00 per 100
10 to 12 ft. 150.00 per 100
1½ to 2-in. cal. 200.00 per 100

Write for our fall and winter price list.
Shade trees and evergreens our specialty.

ROLLERS WHOLESALE NURSERY
Rogers, Ark.

NURSERY STOCK
TAXUS, RHODODENDRONS, JAPANESE MAPLE, AZALEAS, HOLLIES, MAGNOLIAS, DOGWOODS and other choice foundation planting stock in both finished and lining-out grades. Catalog upon request. Buy the best. "BUY KLYN'S."

GERARD K. KLYN, INC., MENTOR, O.
Wholesale Rose Growers and Nurserymen
IN THE HEART OF FAMOUS LAKE CO.

FALL SURPLUS Each
100 Hardy Cedar of Lebanon, 3-yr. grafts \$3.00

50 Cladrastis lutea, 6 ft., XX. 3.00
25 Maackia amurensis, 4 to 5 ft., XX. 3.00
25 Ilex opaca, 2 to 3 ft., pickup. 3.50
25 White Dogwood, 6 to 7 ft., pickup. 5.00

Cash with order.
BRIMFIELD GARDENS NURSERY
245 Brimfield Rd., Wethersfield 9, Conn.

600 COLORADO BLUE SPRUCE
2½ to 5 ft., some very good blue.
50 EUROPEAN WHITE BIRCH
6 to 8 ft.

McKEAN'S NURSERY
R. D. 2, Sharpsville, Pa.
Sharon-Greenville Road, 1 mile south of Clarksville, Pa.

LANDSCAPE MATERIAL
PRICED TO CLEAR
Cornus alba (sibirica), C. stolonifera, C. racemosa, 3 to 4 ft., \$50.00 per 100. Larger sizes and quantities available.

BLAIR'S GARDENS
R. 1, Box 93 Warwick, N. Y.

2½-in. potted plants, 10c each: Pfötzer Juniper, Magnolia, Boxwood, Nandinas, Baker's Thuja, Abellias and Forsythias.

Rooted cuttings, 5c each: Pfötzer Juniper, Euonymus japonicus, Wax-leaved Ligustrum, Boxwood, Jacobinias, Crassula arborescens, 3c each. Cash with order.

Carden's Nursery & Cut Flowers, 4201 North St., Fort Smith, Ark.

Abelia grandiflora, cut back several times; real specimen plants, our choice, \$1.50. Over 5000 to select from, up to 6 ft. Elaeagnus pungens, good, bushy plants, real specimens, up to 6 ft., \$1.75. Ligustrum lucidum, 3 to 4 ft., \$1.50. Buxus sempervirens (Boxwood), up to 5 ft., some real good, some not so good, but good for landscape work.

Mountville Nurseries, Mountville, Ga.

Ilex crenata bullata, 10 to 12 ins., 80c; 12 to 15 ins., \$1.00; 15 to 18 ins., \$1.50; 18 to 24 ins., \$2.00.

Will consider bed-run price with interested parties. Azaleas, Hino, Snow, Coral Bells and crimson, 4 to 6 ins., 6 ins., 6 to 8 ins., 8 to 10 ins.

C. F. Daley & Son, Tazewell, Va. (just off Rt. 13).

EVERGREENS, SHADE TREES
Taxus, Ilex, Boxwood, Arborvitae, Junipers, Broadleaves, Hemlocks, Pines, Spruces, Pin Oak, Green Ash, Maples, Shetlands too!

Wholesale only. Competitive prices.
CARDINAL HILL NURSERY
Glenn's Creek Pike Frankfort, Ky.
Phone 3-1824

Cherry Laurel liners, Prunus caroliniana and Prunus laurocerasus schipkaensis, zabeliana, macrophyllum and officinalis.

Please see complete list on page 81.
Templeton, Phytotektor, Winchester, Tenn.

Pink Dogwood, B&B: 4 to 5 ft., \$2.50; 3 to 4 ft., \$2.00; 2 to 3 ft., \$1.50. Slash Pine, 18 to 24 ins., 80c; 2 to 3 ft., 75c; 3 to 4 ft., \$1.00; 4 to 5 ft., \$1.50; 5 to 6 ft., \$2.00. B&B. Gardenias, fortunei, Mystery and stricta nana, 2-yr., 50c.

Young's Nursery, Forest Hill, La.

Quercus rubra (Red Oak), root-pruned, field specimens, 2 to 8-in. caliper.
R. H. Rogers Nursery, Cooperstown, N. Y.

TAXUS

TAXUS CUTTINGS
Heavy cuttings, unrooted, \$30.00 per 1000. Cuspidata, hicksii, nana and intermedia.

Packing free, money with order.
We have LARGE SPECIMEN LANDSCAPE PLANT MATERIAL: TAXUS, CUSPIDATA, HICKSII, NANA and CAPITATA, also ILEX, HETZI and ROTUNDIFOLIA.

MAGNOLIA STELLATA, EUONYMUS ALATUS COMPACTUS and EVERGREEN AZALEAS.

Write for prices.
FAIRVIEW FLORAL NURSERY
27819 Center Ridge Rd. Westlake, O.

TAXUS CUSPIDATA CAPITATA
4 to 5 ft. terminal cuttings, well-sheared, A-1 stock.

Price on request.
BRIAR HILLS NURSERIES
Route 100, North State Road
Briarcliff Manor, N. Y.

QUALITY STOCK
Taxus capitata (Yew), upright, 5-yr., s. TT, 12 to 15 ins.

4-yr., 10 to 12 ins.
Also finished stock at reasonable prices.

HILLSIDE NURSERY
631 Main St. Cromwell, Conn.

TAXUS CAPITATA
The seed was imported from Japan. The plants are strong selected 4-yr. transplants. Two years ago when the stock was transplanted, only selected plants were picked to grow on.

Per 100 Per 1000 (EACH) (EACH)
4-yr., T, 10 to 15 ins., heavy, \$0.45 \$0.40
C. HOOGENDOORN, NURSERYMAN
413 Turner Rd. Newport, R. I.

TAXUS
Finished landscape material.
First quality. Priced to sell.

Vermont, 3½ to 4 ft. \$8.00 each, per 10
Capitata, 3½ to 4 ft. 8.00 each, per 10
Taxus, Arborvitae, Ilex, trees in variety.

Price list on request.
B. F. BARR & SON NURSERIES
Lancaster, Pa.

Taxus, liners, 50,000 (10,000 of each variety). Hatfield, densiformis, henryi, thayerae, hicksii. Extra heavy 2-yr.-old, transplanted, certified stock, 45c each, per 100; 40c each, per 1000; 35c each, per 5000 and up. Ship beetle zone or outside beetle zone.

Cedarhurst Nurseries, Inc., 3044 Pawtucket Ave., East Providence, R. I.

TAXUS LINERS AT A BARGAIN
10,000 3-yr.-old liners, heavy.

Cuspidata spreading.
\$35.00 per 100, \$300.00 per 1000.
Ship beetle zone, outside beetle zone. Free packing and samples on request.

LARRY'S NURSERIES, INC.
560 Reservoir Ave. Cranston 10, R. I.

VIBURNUMS

VIBURNUM CARLESI COMPACTA (NEW).
This is a compact form of Viburnum carlesii with dark green leaves and buds up very readily.

Per 100 Per 1000 (EACH) (EACH)
Strong 2-yr. grafts \$1.50 \$1.25
C. HOOGENDOORN, NURSERYMAN
413 Turner Rd. Newport, R. I.

Viburnum liners: Viburnum, carlesii, chenaultii, juddii, macrocephalum sterile, rhytidophylloides, rhytidophyllum and tomentosum plicatum grandiflorum.

Please see complete list on page 81.
Templeton, Phytotektor, Winchester, Tenn.

Surplus Stock
can be easily and quickly turned into Cash

by listing it in the
American Nurseryman Classified Ads

VINES

LARGE-FLOWERING CLEMATIS VINES
1-yr. container grown, 75c each.

Comtesse de Bouchaud, pink
Ernest Markham, red
Ville de Lyon, red

Full delivery. Cash with order.

FOUR STAR NURSERY
8215 238th St., S. W.
Edmonds, Wash.

WANTED

WANTED—TAXUS
Unrooted cuttings of Taxus, densiformis, wardi, browni, Adams columnaris. October 15 to March 15.

MIAMI NURSERY CO.
Route 2 Tapp City, O.

WANTED
UNROOTED CUTTINGS OF TAXUS, WARDI, DENSIFORMIS, SEBIAN, LINWORTH NURSERY
5785 Godown Rd. Columbus 21, O.

Quick — Convenient — Cheap!
Selling through the Classified Ads of the American Nurseryman.

SUPPLIES

BURLAP

| NEW BURLAP | | |
|--------------------------------------|----------|------------------|
| In bolts or rolls of 100 to 125 yds. | | |
| HEAVYWEIGHT BURLAP | | |
| Width | In bolts | On rolls |
| 36 ins. | 22 1/2 c | 24 1/2 c per yd. |
| 40 ins. | 23 1/2 c | 25 1/2 c per yd. |
| 45 ins. | 25 1/2 c | 27 1/2 c per yd. |
| 48 ins. | 27 1/2 c | 29 1/2 c per yd. |
| 54 ins. | 31 c | 33 c per yd. |
| 60 ins. | 34 1/2 c | 36 1/2 c per yd. |
| 72 ins. | 40 1/2 c | 42 1/2 c per yd. |

BURLAP EROSION CLOTH
40 ins. 18 c 21 c per yd.
57 ins. 23 c 26 c per yd.

GREEN BURLAP
36 ins. 37 1/2 c per yd.
All prices are net F.O.B. New York.

Minimum order 1 bolt or 1 roll. Orders of 3 or more freight prepaid east of the Mississippi. When ordering specify rolls or bolts.

LEWIS INTERNATIONAL CO.
(Sundries Dept.)
666 Clinton Ave. Newark 8, N. J.

| DOMESTIC BURLAP SQUARES | | |
|-------------------------|-----------------|--|
| 24x24 ins. | 3 1/2 c per sq. | |
| 28x28 ins. | 4 1/2 c per sq. | |
| 30x30 ins. | 5 c per sq. | |
| 32x32 ins. | 5 1/2 c per sq. | |
| 36x36 ins. | 7 c per sq. | |
| 40x40 ins. | 8 1/2 c per sq. | |

Please compare these prices with what you are currently paying. All covers are made from vacuum cleaned bright burlap bags, free of holes and perfectly uniform. Samples will be gladly mailed upon request.

HARRY STOLLER & CO.
30-40 Maple St. Chelsea 50, Mass.

HOLLAND BURLAP—Woven for All Needs. STANDARD, BOSKOOP, COMPACT. Coppered Rot Not and Two Season Rot Proof. HALF MOON CO., Box 27A, Plainfield, N. J.

CANE STAKES

LIGHTNING SERVICE

ON

FRESHLY IMPORTED

JAPANESE BAMBOO CANE STAKES

from
NEW YORK, CHICAGO, PORTLAND, ORE.

Write for our competitive prices and generous quantity discounts.

McHUTCHISON & CO.

695 Grand Ave. Ridgefield, N. J.

2505 S. E. 11th Ave. Portland 2, Ore.

BAMBOO CANE STAKES

For greenhouse and nursery purposes.

All types and sizes.

Write for prices and quantity discounts.

ALEC HENDERSON, INC.

1313 W. Randolph St. Chicago 7, Ill.

OUTDOOR BAMBOO STAKES.

All sizes for immediate delivery.

Ask for our Nursery Supply List.

HALF MOON CO., Box 27A, Plainfield, N. J.

9,500 Active Nurserymen

are in need of stock.

List your offerings in the

American Nurseryman Classified Section.

CHRISTMAS TREES

CHRISTMAS TREES

Scotch Pine, 5 to 8 ft., select, pruned, plantation-grown trees from Western Michigan's Ottawa County. Will deliver in truck-trailer quantities within 400-mile radius. Write or phone.

R. D. MILLER NURSERY
R. 4, Wood St. Lansing, Mich.

CHRISTMAS TREES

Fresh cut native Balsam and Spruce, ungraded; some good, some fair, some poor. 5 to 8 ft. tall, \$50.00 per 100 trees. Write or visit early for more details.

HARVARD TREE FARM
(H. L. NYE)
Pleasant St. Athol, Mass.

MISCELLANEOUS

MISCELLANEOUS Per 1000
Privet (Amur River) North, heavy tops and roots, 1-yr., uniform.....\$48.00
Pachysandra, rooted cuttings..... 50.00
English Ivy, rooted cuttings..... 50.00
Andorra Juniper, Taxus, rooted cuttings, \$10.00 per 100.

IVYDALE NURSERY
Route 1 Gallipolis, O.

Excellent, finished stock, priced to sell quickly. Mountain Ash, Cotoneasters, Black Hills Spruce, Mugho Pine, Junipers, rock plants, Sempervivums, 4 kinds; etc.
The Pequot Nurseries, Brainerd, Minn. Phone 2053.

COLOR TAGS

COLOR PICTURE TAGS
Quick shipment. Reasonably priced. Shrubs, shade, fruit, vines, flowering trees, etc. Write for price list.

GLOBE NURSERIES
Box 249 McMinnville, Tenn.

CONTAINERS

KNOCKED-DOWN CANS
(Pat. No. 2833087)
Shipped and stored flat.
New tin sheet metal cans, now available in 3 sizes, to enable nurserymen and retailers to sell roots with their stock. Grow in tin cans that will eliminate your packaging and replacement problems.

Write for prices and sizes.
BENSON & WEDDING
Knocked-Down Cans
16730 Sayre Ave. Tinley Park, Ill.

DECORATIVES

PINE CONES, 1/4-IN. TO FT. LONG
Illustrated folder. Many species. Choice all-cone Christmas wreaths.
WESTERN TREE CONES
1925 Brooklane Corvallis, Ore.

FERTILIZERS

PETERS SPECIAL
CONTAINER-GROWING FERTILIZERS
All materials listed are ideal for container-growing purposes.

SOLUBLE FERTILIZERS
21-7-7 Azalea Neutral (non-acid forming)
21-7-7 Azalea Acid (heavy acidifying action)
Both above, \$6.50 per 25-lb. bag.

\$22.00 for 4 25-lb. bags.

LONG-LIFE FEEDS

13-6-6 Organic Special Du Pont Uramite Nitrogen and highest grade natural organics. The finest long-life dry feed. Unexcelled for containers.

\$7.50 per 25-lb. bag, \$28.00 for 4 25-lb. bags.

Du Pont Uramite, 38 per cent nitrogen from methyl-urea, \$12.00 per 50-lb. bag.

Also available: Chelated Iron, Chelated Trace Element Complexes, Fritted Trace Elements, etc.

FRITTED POTASH

Contains 32 per cent K₂O, plus fritted trace elements. Will not leach away. Gives 6 to 9 months' assured supply of Potash, regardless of leaching rain or heavy watering. \$9.00 per 25-lb. bag; \$8.00 per 25-lb. bag for 4 to 39 bags.

Write for complete price list.

Freight prepaid to any state in the Union with the exception of Alaska, on all orders totaling 300 lbs. or more. West of the Mississippi, add 2c per lb. on 300 lbs. and over, prepaid shipments. F.O.B. Allentown, Pa., on all orders less than 300 lbs.

ROBERT B. PETERS CO.

323 North 15th St. Allentown, Pa.

FIREWOOD

SEASONED WHITE BIRCH
FIREPLACE WOOD
By the bundle or truckload.
For complete information, write to
PARK RAPIDS FOREST PRODUCTS
Park Rapids, Minn.

FLATS

REDWOOD FLATS, K.D.
Finest stock obtainable. Guaranteed all clear heart. Size 20x15x3 ins. inside measure, \$38.00 per 100.

1x1-in. Cypress stakes, pointed.

50 pcs. to bundle, 4 ft., \$3.50 per bd.

50 pcs. to bundle, 5 ft., \$4.50 per bd.

50 pcs. to bundle, 6 ft., \$5.50 per bd.

Ship same day. Cash with order, please.

YOHO & HOOKER, YOUNGSTOWN 2, O.

CYPRESS FLATS

Shipped from Williamston, N. C.

WHITE CEDAR FLATS

Shipped from Cook, Minn.

| Order by No. | Price Per 100 | Cedar per 100 | Cypress per 100 |
|----------------------------|---------------|---------------|-----------------|
| No. 1, 14x20x2 1/2-in. | \$27.00 | 320 | 400 |
| No. 2, 14x20x3-in. | 31.50 | 400 | 500 |
| No. 3, 12x16x2 1/2-in. | 20.75 | 260 | 325 |
| No. 4, 12x16x3-in. | 24.50 | 275 | 345 |
| No. 5, 14x16x2 1/2-in. | 23.25 | 275 | 345 |
| No. 6, 14x16x3-in. | 27.50 | 290 | 365 |
| No. 7, 15x22x2 1/2-in. | 30.75 | 380 | 475 |
| No. 8, 15x22x3-in. | 35.50 | 425 | 535 |
| No. 9, 11 1/4x22x2 1/2-in. | 25.00 | 320 | 400 |
| No. 10, 11 1/4x22x3-in. | 29.00 | 400 | 500 |
| No. 11, 14x16x5-in. | 32.75 | 450 | 560 |
| No. 12, 5x11x5-in. | 16.75 | 160 | 200 |
| No. 13, 5x16x5-in. | 19.00 | 215 | 270 |

Plant boxes, 5x8 1/2x2 1/2-in., 5.50 45 60

Skeleton flats to carry TEKPAKS and similar growing containers. (Write us for price list.)

All other sizes quoted on request.

Above prices apply to both Cypress and Cedar.

5 per cent discount on orders of 1000 or more; 10 per cent discount on carloads of 30,000 lbs. or more.

The above sizes are inside measurements. Bottoms and sides are 1/2-in. thick and ends are 3/4-in. thick. All material surfaced on one side.

Your name and address printed, up to 3 lines in black ink, on one or both end pieces at the following rates: \$1.00 setup charge, plus 1/4c per end piece for the first 1000 ends; 1/2c per end thereafter.

Write inquiries and orders for White Cedar flats to Cook, Minn., and for Cypress flats to Williamston, N. C.

Shipped knocked-down in units of 25. F.O.B. mills. All shipments by truck unless otherwise specified. Attach check. Order by number, especially if by telegram.

H. C. HILL & SONS

Manufacturers of flats, boxes, wood turnings and specialties.

Phone North 6-3348, Cook, Minn.

Phone SWift 2-4127, Williamston, N. C.

LABELS

| DAHLIA OR TREE LABELS | | |
|-----------------------|-------|---------|
| | Plain | Painted |

3 1/4x 1/2 ins., notched, not wired. \$3.00 \$3.60

3 1/4x 1/2 ins., wired (copper) 3.95 4.90

POT LABELS

4x 1/2 ins. (cartons 1000 each) 3.95 4.60

5x 1/2 ins. (cartons 1000 each) 4.30 5.10

6x 1/2 ins. (cartons 1000 each) 4.70 5.80

Priced per carton

8x 1/2 ins. (cartons 500 each) \$3.60 \$4.30

10x 1/2 ins. (cartons 500 each) 4.20 5.10

GARDEN STAKES

8x 1/2 ins. (cartons 250 each) 3.00 3.60

10x 1/2 ins. (cartons 250 each) 3.30 3.90

12x 1/2 ins. (cartons 100 each) 2.00 2.40

Our labels are perfectly white and smooth on both sides and are pronounced by growers the best and most economical.

Catalog on request.

"We ship same day."

YOHO & HOOKER, YOUNGSTOWN 2, O.

ORCHID SUPPLIES

ORCHID SUPPLIES

Hoof and Horn Meal.....100 lbs., \$14.50

Blood Meal.....100 lbs., 14.50

Fish Meal.....50 lbs., 14.50

Urea Crystals.....50 lbs., 14.50

Ammonium Nitrate.....80 lbs., 7.50

Priced P.O.B. Houston, Tex.

WRIGHTWOOD FLORAL CO., INC.

1420 Wrightwood Ave. Houston 9, Tex.

PEAT MOSS

"BRODLEAF" Holland Peat Moss, Carlots. Standard 7 1/2 cft. Gardener 6 cft. and Halves. Jumbo for growers, two bales equal three. HALF MOON CO., Box 27A, Plainfield, N. J.

PLASTIC FILM

POLYETHYLENE FILM

Sun-resistant black for mulching.....6015 mil.

3 ft. x 500 ft.....\$ 7.70 per roll

3 ft. x 1000 ft..... 15.40 per roll

Natural transparent only.

.002 mil., all rolls 200 ft. long.

4 ft. x 200 ft.....\$ 6.00 per roll

8 ft. x 200 ft..... 12.00 per roll

Natural transparent, sun-resistant black.

.004 mil., all rolls 100 ft. long.

3 ft. x 100 ft.....\$ 5.00 per roll

4 ft. x 100 ft..... 7.00 per roll

6 ft. x 100 ft..... 11.00 per roll

8 ft. x 100 ft..... 15.00 per roll

Minimum order 4 rolls. Write for lower prices in quantity orders.

Other sizes and mil. weights available up to 40 ft.

Phone Baldwin 3-8277.

DAYTON NURSERY AND GARDEN SALES

P. O. Box 763 Dayton 1, O.

POLYETHYLENE FILM

Natural transparent, made from Du Pont Alathon, the amazing film for greenhouses. .004 mil. all rolls 100 ft. long.
 3 ft. wide by 100 ft. long \$ 6.00 per roll
 4 ft. wide by 100 ft. long 8.00 per roll
 6 ft. wide by 100 ft. long 12.00 per roll
 8 ft. wide by 100 ft. long 16.00 per roll
 Other sizes available up to 20 ft. wide.
 Send \$1.00 for liberal sample
 4 ft. x 10 ft., postpaid.

Special deal for greenhouse construction.
 5 rolls to 9 rolls, 25 per cent discount.
 10 rolls or more, 33 1/2 per cent discount.

"We ship same day."

YOHO & HOOKER

520 Williamson Ave. Youngstown 1, O.

POLYETHYLENE FILM.

2 mil. in 200-ft. rolls, 36 ins. wide, \$5.96;
 54 ins. wide, \$5.79; 108 ins. wide, \$17.34;
 4 mil. in 100-ft. rolls, 36 ins. wide, \$6.18;
 54 ins. wide, \$9.12; 126 ins. wide, \$20.20.
 5 rolls, less 10 per cent; 10 rolls, less 20 per cent. Also wider widths available.
 We pay freight if check in with order.

ROUGH BROS.

4229 Spring Grove Ave. Cincinnati 23, O.

POLLY-Film and POLLY-Cloth, reinforced.

Polly Aluminum on Black, Rolls-Sheets.

Ask for Polly list and Nursery Supply list.

HALF MOON CO., Box 27A, Plainfield, N. J.

PLASTIC GREENHOUSES

PLASTIC GREENHOUSES

Quonset type, including ribs, galvanized wire and Visqueen cover. Can be set up in one day. 16 ft. x 47 ft. 6 ins., \$285.00; 16 ft. x 97 ft. 6 ins., \$545.00. Gables and foundation not included. Freight prepaid if check in with order.

ROUGH BROS.

4229 Spring Grove Ave. Cincinnati 23, O.

SPHAGNUM MOSS

NO. 1 SPHAGNUM MOSS

Large burlap bales, long fibered, clean, firmly packed; bale, \$1.20. Also ground moss. JOSEPH JAMROS, CITY POINT, WIS.

Fresh, clean sphagnum moss, write or phone City Point 133 for our low prices on wirebound bales in truckloads or carlots. Pure Sphagnum Moss Co., City Point, Wis.

Long-fibered sphagnum moss, also ground moss. Price us on truckloads delivered. Warrens Moss Co., Warrens, Wis.

Quick — Convenient — Cheap!
 Selling through the Classified Ads
 of the American Nurseryman.

STAKES

CYPRESS PLANT STAKES

50 pieces to bundle.

1x1-in.—3 ft., pointed \$3.00 per bundle
 1x1-in.—4 ft., pointed 3.50 per bundle
 1x1-in.—5 ft., pointed 4.50 per bundle
 1x1-in.—6 ft., pointed 5.50 per bundle
 1x1-in.—7 ft., pointed 7.00 per bundle

These stakes are made of cypress and redwood; are good, strong stakes and will give long service. "A little better than seems necessary."

WE SHIP SAME DAY!

YOHO & HOOKER

Youngstown 2, O.

STAKES, GALVANIZED HARD STEEL

GALVANIZED tree guying WIRE.

HOSE for guy wire PADDING.

Prices and samples sent on request.

SCHUPP SUPPLY CO., WILMETTE, ILL.

Wood Feathers

SCREENED
BALED RED CEDAR SHAVINGS

The Perfect Nursery Packing

Manufactured by

MONARCH SHINGLE CO.

P.O. BOX 98

N. PORTLAND, ORE.

LOW DELIVERED PRICES—We Solicit Your Inquiries

ty's amateur garden clubs and serves as a clearinghouse and sponsor for amateur gardening activities. Paul Brecht, Rod McLellan Co., South San Francisco orchid grower, was elected a counselor of the group.

Utilizing a special California law, several counties have passed green belt zoning regulations. The purpose of these has been to permit agriculturists who are being crowded out of the better land in the state to protect their property from annexation by cities and towns desiring to expand. The zoning has the further advantage to the nurserymen in that it also provides them with an agricultural status before tax boards and assessors. Many nurseries in the counties where green belting has been adopted have availed themselves of its advantages and are able to continue in business because of it.

The San Francisco chamber of commerce has announced that more than 10,000 new residents have poured into the 13 bay area counties every month since 1950. It reports further that 50 out of every 100 residents in San Francisco have settled there since 1950 and that by 1960 the population of the region will exceed 4,500,000. The present population is estimated at 4,250,000.

The agricultural research administration of the United States Department of Agriculture has published a "Suggested Guide for Chemical Control of Weeds." In its 53 pages, it reports on nearly every chemical that has been registered for this purpose, tells the rates of application and the uses for which the material has been found satisfactory and groups the chemicals into various classes, such as weed control for field crops, weed control for vegetable crops and weed control in horticultural crops. It discusses the general considerations in the use of herbicides, the basis for purchasing them and the effect of weather, soil and other environmental factors and warns against the use of them in some cases. The publication can be obtained from the Department of Agriculture, Washington, D. C. W. B. B.

OREGON NOTES

The father of Bernard Vandewater, Portland landscape gardener, died September 4.

Joseph Klupenger, Klupenger Nursery and Klupenger Greenhouses, recently underwent minor surgery, which confined him to his home for a few days.

Several nurserymen took a prominent part in the flower and nursery

Join the

PREMIER
PROFIT
PARADE

It's the
HIT PARADE
in
PEAT MOSS



IT IS TOPS
for nurserymen to SELL!

Premier's colorful, eye-catching packages—poly-laminated inside and outside for clean handling—increase your peat moss sales and profits!

IT IS TOPS
for nurserymen to USE!

Premier's tightly compressed big-value bales give you the best buy and best quality for soil conditioning, mulching, lining out, seedbeds. Premier's world-wide resources assure quality, value and service on both Canadian and European Peat Moss.

Any combination shipped in one car

Send for full details today.

PREMIER PEAT MOSS CORP.

535 Fifth Avenue, New York 17, N. Y.

PREMIER
Sphagnum
PEAT MOSS

WANTED and FOR SALE ADS

Help and Situation Wanted and For Sale Advertisements

Display: \$4.50 per inch, each insertion.

Lines: 40¢ line; minimum order \$4.00.

HELP WANTED

MANUFACTURER'S REPRESENTATIVE

Real opportunity for salesman now working territory with few lines, calling on machinery distributors or dealers and landscape men. Outstanding patented tractor-mounted machine for fine grading, leveling, seeding and many other operations. Easily arranged, short demonstrations produce sales. Protected territory and good commission. Please include in first letter, territory covered, lines carried, experience, personal references and data. Write Box 520, care of American Nurseryman.

SITUATION WANTED

MANAGEMENT SUPERVISION OR SALES

Horticultural or garden supply sales and purchases. Graduate horticulturist with excellent background covering 8 years' experience in retail, wholesale and own business. Successful management and growing background with reliable well-known firms. Presently employed but seeking situation commensurate with experience and education. For resume write Box 527, care of American Nurseryman.

FOR SALE

Wholesale nursery in San Antonio, Tex. 10 acres in town, 3000-sq.-ft. greenhouse. Big 4-room house, 40,000-sq.-ft. lath, 3500 sq. ft. of barns and storage. 75,000-gal. concrete water tank, 2000-gal. metal pressure tank, well on place, unlimited water available. Inventory at growing cost valued at \$60,000. All inventory in container stock. Tractor, trucks and other necessary nursery equipment included. Total price \$100,000. Write or call:

CONDOS AND RHAME
Room 4, International Airport
San Antonio 12, Tex.
Phone: TAYlor 6-0667

SITUATION WANTED

Young man desires position with possibility of future financial interest in nursery. Over 3 years of nursery experience involving sales, foreman and propagation. Degree in ornamental horticulture from Michigan State. Midwest location preferred. Write Box 524, care of American Nurseryman.

HELP WANTED MANAGER

Immediate opening for a man who is capable of taking complete charge of a small progressive nursery located in the Indiana dunes. Good salary and bonus to the person who qualifies. Attractive modern home available.

Kenneth Lackey
DUNES NURSERY CO.
8333 Lake Shore Dr.
Gary, Ind.

HELP WANTED

Long-established, small, wholesale nursery now in the process of expansion wants working manager to take charge of new 30-acre farm; nice level land; new propagating greenhouse to be built; good, clean, strong, 7-room house to live in; 5 miles from substantial town in middle New Jersey; good salary, and if you have money to invest, partnership possibility, but this is neither a requirement nor preferred as business is well capitalized. We look for a capable man, able to turn out good volume of work with one to four men. Give age, experience. Write Box 526, care of American Nurseryman.

FOR RENT

GARDEN CENTER

3-acre salesyard, greenhouse, nursery, 50x50-ft. brick storage house and home. River Rd., Rt. 45, 1 mile north of Rt. 64, 2 miles out of Chicago. Write Box 525, care of American Nurseryman.

FOR SALE TREE RIG

1948 Dodge power wagon, 4-wheel drive, 4-ton winch, 3/4-in. cable, pickup capacity 3-ton 4-ft. ball. Pickup equipment included. Price: \$1,500.

Henry J. Tepper
FOREST HILL NURSERY
4360 E. Burton Grand Rapids 6, Mich.
Phone: CH 5-6507

HELP WANTED

Young partner with some experience in purchasing and managing nursery salesyard. I recently sold a successful yard and have acquired excellent 480-ft. frontage on best highway in Sussex County, N. J., for new garden center. Partner will have option of buying me out in 5 to 10 years for present low cost of land plus half of final year's business. Very suitable building includes three-room apartment. Cash needed, \$8000 to \$10,000 for part of stock.

CHARLES P. GRUMMON
Box 45 Newton, N. J.

HELP WANTED

LANDSCAPE SALESMAN

A growing opportunity awaits an energetic man. Many company benefits offered to good producer. Must be familiar with semi-tropicals and plants common to the Gulf coast area; dependable, non-drinker, familiar with design and ambitious. Houston is America's fastest-growing city. Write today!

Attention: Personnel Director

TEAS NURSERY CO., INC.
4400 Bellaire Blvd. Bellaire, Tex.
Phone: Houston, MO 4-3471

FOR SALE

100 acres—shade trees, evergreens, shrubs and Christmas trees. 40 miles north of Chicago. One of the most potential locations for retail sales. Full details upon request. Write Box 522, care of American Nurseryman.

FOR SALE

LANDSCAPE NURSERY

Excellent business opportunity. Good location, good merchandise, good reputation. Write to P. O. Box 65, Daytona Beach, Fla.

HELP WANTED

Firm established 40 years in landscape business, Chicago area, in need of combination landscape salesman-foreman; capable of selling; drawing rough plans; supervising; executive caliber. Excellent wages, fine future. Write full particulars. Our employees know of this ad. Address replies to Box 521, care of American Nurseryman.

HELP WANTED

LANDSCAPE AND NURSERY FOREMAN

Degree not necessary but must have a good knowledge of plant material. Some propagation experience would be helpful. In replying please state marital status, age, salary expected, experience, etc.

HOPPERTON NURSERY
Ogden Ave., P. O. Box 65
Naperville, Ill.

FOR SALE

Used complete greenhouses. Used greenhouse materials, glass, pipe, valves, etc. Greenhouses bought for wrecking.

SEABOARD GENERAL SUPPLY CO.
Elizabeth 4-9041 Waverly 6-0404
1080 Magnolia Ave. Elizabeth, N. J.

HELP WANTED

SALES POSITION OPEN

Medium-size midwestern grower-nurseryman has opening for wholesale salesman. Old, established firm growing a full line of ornamentals. Now concentrating on Great Lakes area, but need more coverage. Salary plus bonuses—no commissions. Send resume to Box 523, care of American Nurseryman.

FOR SALE

BALL DIGGER

Minneapolis Moline Tractor in excellent condition mounted on Nurseryman's Research Foundation high-boy frame. 5-ft. clearance. Hydraulically operated digger. Complete set of buckets for digging 6, 8, 10, 12 and 14-in. balls. 400-gal., easily attached, Hardie Sprayer. Full price, \$4200.

PONTIAC NURSERY CO.
Romeo, Mich.

BUSINESS OPPORTUNITY NUTRILITE FOOD SUPPLEMENT

We are agents for this finest of food supplements for human nutrition. Write us concerning very profitable distributorships.

ROBERT B. PETERS CO.
323 N. Fifteenth St. Allentown, Pa.

FOR SALE—Retail landscaping business and 70-acre nursery with 15 acres in stock. Nursery watered by stream with complete irrigation system, mist propagation system in greenhouse, shaded beds. Equipment includes new truck, 2 tractors and complete line of nursery and landscaping equipment. Located in fast-growing east Tennessee area with wonderful climate and year-round landscaping work. Selling price, \$30,000. Write Box 528, care of American Nurseryman.

section at the recent Oregon state fair. Among them were Brydon's Nursery and Iufer nursery, Salem. Junay's Garden Center, Portland, entered a large display which depicted a garden scene, with waterfall and pool. The display by the Oregon Association of Nurserymen, formulated by the Willamette chapter of the O. A. N., was awarded a blue ribbon. A judge at the flower show was Ralph Sittle, Portland fuchsia grower. Carl Starker, Oak Grove, grower of greenhouse and nursery stock and an author of books on floral designing, demonstrated floral designing at the fair. September 6 and 7 Mr. Starker held open house for his new pottery salesroom.

The Clackamas chapter of the O. A. N. held a meeting at Oregon City August 26. Robert Snodgrass, Esch Nursery and Seven Dees Nursery, Portland, O. A. N. state vice-president, spoke to the group about the O. A. N. convention to be held at Eugene January 8 and 9, 1959. Ray Burden, Hazel Dell Garden, Canby, will be in charge of the Clackamas chapter portion of the program at the convention. Richard Bullock, Oregon experiment station, outlined procedures to be followed by the new Portland station and urged O. A. N. chapters to submit nursery problems to the station. Franz Kruschke gave a talk on "Fertilizing of Nursery Stock," which was followed by a question and answer period.

Croft lily bulb growers of the southern Oregon coastal area were busy digging bulbs during the early part of September, with the operation in full swing around September 10. Growers hoped, barring rain, to have their crop dug by the latter part of the month. Then comes a period during which grading and shipping to all parts of the country take place. The crop this year appears to be a good one. C. H. P.

SUFFERS HEART ATTACK

Frank Donovan, eastern representative for A. McGill & Son, Fairview, Ore., and Peterson & Dering, Scappoose, Ore., suffered a severe heart attack at Geneva, N. Y., August 12. He was hospitalized there and after treatment expected to return to his home at Euclid, O., by ambulance September 10. His wife, Bernice, joined him at Geneva.

DOING business as The Planter, Eloise Lesmeister operates a retail and wholesale nursery and landscape enterprise at Vancouver, Wash.

EQUIPMENT FOR THE NURSERYMAN AND CHRISTMAS TREE GROWER!

TREE PLANTERS: Three models—

Standard. By far the most popular planter. For rough, stony land. **\$365.00.**

Lake States. Scalps as it plants. **\$390.00.**

M-55. Only **\$245.00**—for average sites.

These planters make the deepest trench of any planter we know of.

Special trenchers available for large stock.

Satisfaction guaranteed.

MOWERS: We now have, for immediate installation on your tractor, twin 30-in. rotary mowers with the following features:

- 1) Mow both sides of row simultaneously.
- 2) Housings adjustable for distance apart.
- 3) Mowers can be mounted on front cultivator bars. Enables practical operation on rough land, closer mowing.
- 4) Mowers also available for all conventional lifts: 3-point, etc. Best on high-clearance tractor for trees 4 ft. high or more.
- 5) Blades turn in opposite directions so best cutting is next to tree row and cuttings are thrown away from trees.
- 6) Each cutting unit has its own hydraulic motor. Guaranteed for two years, trouble-free operation.

ROOT PRUNERS: Sizes to fit your needs. For mounting on rear hitches or front cultivators. Also bed lifters for lifting seedlings or root pruning in beds.

WRITE: ROOTSPRED,
St. Petersburg, Pa., for specific information and prices

WATCO MISTING SYSTEMS

Used by the leading growers of the country



3/4-in. 4W Wide-Angle MISTING NOZZLE

\$2.95 each

**INSURE HEALTHY
ROOTED CUTTINGS —
FASTER
AT LOWEST COSTS
INTERMITTENT SYSTEMS
FOR ALL CROPS**

WATCO



Complete Clock Timer and bell 1/2-inch solenoid wired, ready to hang up.

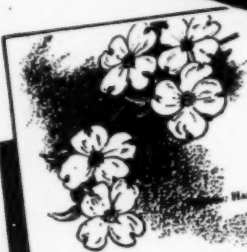
\$65.00

NOZZLES — TIMERS — SOLENOIDS — STRAINERS — ACCESSORIES

• LAYOUTS SUPPLIED FREE — SEND FOR BULLETIN No. 30

AL SAFFER, Horticultural Supplies, 130 W. 28th St. New York 1, N. Y. Oregon 5-2548

ANOTHER PROMINENT NURSERYMAN WRITES ABOUT NO-ROT BURLAP



COLONIAL NURSERY, INC.

Landscape Service

5901 JONESTOWN ROAD, HARRISBURG, PENNA.

Phone: Harrisburg KI 5-5517

August 14, 1958

New Yorker Bag & Burlap Co.
Elizabeth
New Jersey

Gentlemen:

We are using NO-ROT burlap and are very satisfied. Your treatment of burlap has definitely prolonged the life of burlap considerable and it has become indispensable in our operations.

We have found that NO-ROT burlap squares last anywhere from 6 months and up without any adverse effect either to the Nursery stock or those handling the burlap.

Yours very truly,

COLONIAL NURSERY, INC.

Fredrick J. Emmert
Fredrick J. Emmert
Secretary, Treasurer

New Yorker Bag & Burlap Co.
651 Marshall St., Elizabeth, N. J.

Send sample and price list on No-Rot.

Mr.

Company.....

Address.....

City..... Zone.....

State.....

For further information and
immediate attention call
COLLECT: ELIZABETH 4-3115
or mail this coupon.

Reliance

The recommended fertilizer for
AZALEAS and CAMELLIAS
Complete nourishment for acid-soil plants

Send for **FREE BOOKLET**—this
authoritative guide on Azalea and
Camellia culture mailed on request



THE RELIANCE FERTILIZER CO., SAVANNAH, GA.

NEW YORK GROUP MEETS

A total of 116 members and guests of the Western New York Nurserymen's Association met for an outing and clambake on Tuesday, September 9, at Logan's, Rochester, N. Y. No regular business or educational sessions were held at the meeting, but from lunch time until the clambake and chicken dinner there was spirited activity at horseshoes and card playing.

The association president, Clarence Vanderbrook, C. W. Stuart Co., Newark, greeted the guests, among whom were Dr. A. M. S. Pridham, Cornell University, Ithaca; Eugene Conrow and Verne O'Dell, United States Department of Agriculture; Dr. Vincent Smith, Alfred; E. Kird and William Ozard, division of plant industry, Albany; Dr. F. L. Gambrell, New York state agricultural experiment station, Geneva, and Herm Breitfeld, state horticultural inspector.

Marshall Smith, Monroe Landscape Co., Rochester, was chairman of the occasion, and he and his committee were congratulated on their choice of meeting site and on the fine dinner. Special prizes were won by Harold Demon, Gaskill Nursery, Newfane; Roeder Kinkel, Avenue Landscape, Buffalo, and George Haney, Jackson & Perkins Co., Newark. William R. Boocock, Sec'y.

SOUTHERN CONVENTION

[Continued from page 8]

dense cover. Plants that are green the year around or have flowers and fruit or provide variations in color make attractive ground covers. An evergreen such as Juniperus horizontalis, used as a ground cover, makes it possible for each plant to cover a large area. For a steep bank, a vigorous plant is required. Professor Beecher pointed out that grass or ground covers contribute to the over-all picture of the landscape, which one is trying to create.

Panel on A. A. N.

To stimulate audience interest and participation, the story of the American Association of Nurserymen and its activities was presented through a panel discussion led by Mr. Gresham, director from region II. Panel members included representatives on the board of governors from region II and included the following: Chapter 17, Virginia, Owen Wood, Wood-Howell Nurseries, Inc., Bristol, and Stanley Quillan, Waynesboro Landscape Service, Waynesboro; chapter 4, Tennessee, Charles Morse, Morse Bros., Chattanooga, and Robert

HERE IS WHY NURSEYMEN PREFER MENNEPOTS



- Superior Strength** Sturdily constructed, the MENNEPOT withstands hard handling.
- Stapled Bottom** Comes completely assembled . . . Potting can start immediately upon arrival.
- Light Weight** The MENNEPOT is economical to use. Light weight makes shipping costs less.
- Drainage** The side-drainage feature makes waterlogging impossible while standing in salesyard.

Size 0 Top . . . 4 ins.
Bottom 3 1/2 ins.
High . . . 4 ins.
Weight per 100
Regular 10 lbs., Heavy 25
Regular Weight Price
100. . \$2.75 1000. \$25.00
Heavy Weight Price
100. . \$3.75 1000. \$35.00

Size 0 1/2 Top . . . 5 ins.
Bottom . . . 4 ins.
High . . . 5 ins.
Weight per 100
Regular 13 lbs., Heavy 30
Regular Weight Price
100. . \$3.50 1000. \$32.50
Heavy Weight Price
100. . \$4.50 1000. \$42.50

Size 1 Top . . . 6 ins.
Bottom . . . 5 ins.
High . . . 6 ins.
Weight per 100
Regular 15 lbs., Heavy 35
Regular Weight Price
100. . \$4.00 1000. \$37.50
Heavy Weight Price
100. . \$5.25 1000. \$50.00

Size 2 Top . . . 7 ins.
Bottom 5 1/2 ins.
High . . . 9 ins.
Weight per 100
Regular 24 lbs., Heavy 55
Regular Weight Price
100. . \$4.50 1000. \$42.50
Heavy Weight Price
100. . \$5.75 1000. \$55.00

Size 3 Top . . . 8 1/2 ins.
Bottom 6 1/2 ins.
High . . . 9 ins.
Weight per 100
Regular 30 lbs., Heavy 70
Regular Weight Price
100. . \$5.00 1000. \$47.50
Heavy Weight Price
100. . \$6.25 1000. \$60.00

Size 4 Top . . . 10 ins.
Bottom . . . 8 ins.
High . . . 10 ins.
Weight per 100—120 lbs.
100. \$11.00
500. \$52.50 1000. \$100.00
*Heavy Only—
For trees and shrubs.

Size 5 Top . . . 12 ins.
Bottom . . . 10 ins.
High . . . 12 ins.
L.G. POT
Weight per 100—250 lbs.
20. . \$30 ea. 100. \$27.50
500. \$125 1000. \$225
*Special for extra-heavy
trees and large shrubs.

Size Pan Top . . . 8 1/2 ins.
Bottom 7 1/2 ins.
High . . . 5 ins.
PAN
Weight per 100
Regular 30 lbs., Heavy 70
Regular Weight Price
100. . \$5.00 1000. \$47.50
Heavy Weight Price
100. . \$6.25 1000. \$60.00

Distributors

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| NEW YORK | Jackson & Perkins Co., Newark, N. Y. Gar Prod., Inc., Queens Ave., Lindenhurst (Long Island), N. Y. |
| OHIO | Skoll Distributing Co., 560 E. 99th St., Cleveland, O. I. G. Harmon & Son, 1800 19th St., Canton 4, O. |
| PENNSYLVANIA | E. C. Gelger, North Wales, Pa. Verscharen's Garden Centers, Rt. 51, Brentwood, Pittsburgh, Pa. Rt. 88, S. Park, Pittsburgh, Pa. |
| NEW JERSEY | New Yorker Bag & Burlap Co., 651 Marshall St., Elizabeth, N. J. Somerset Rose Nursery, Inc., New Brunswick, N. J. |
| ILLINOIS | Quackenbush Industries, Inc., 9245 Cherry St., Franklin Park, Ill. |
| MICHIGAN | Michigan Bulb Co., 345 Ottawa, N.W., Grand Rapids, Mich. Growers Exchange, Inc., P. O. Box 397, Farmington, Mich. Strickland Seed Store, 1429 Gratiot Ave., Detroit, Mich. |
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| CANADA | The Sheridan Nurseries, Ltd., Sheridan, Ontario, Canada. |

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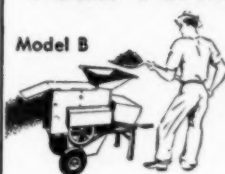
Boyd; chapter 29, North Carolina, Dan Reynolds; chapter 31, Georgia, John Wight, Wight Nurseries, Cairo; chapter 7, Kentucky, Herman Wallitsch, Herman R. Wallitsch Nurseries, Louisville, and chapter 22, Alabama, C. Elwood Stephens, Semmes Nurseries, Inc., Semmes. The various panel members asked questions of Mr. Gresham; Curtis Porterfield, A. A. N. secretary, Washington, D. C., and Howard Quadland, director of public information for the A. A. N.

Answering a question on highway landscaping, Mr. Quadland replied that several states are appropriating money this year for such landscaping. It is essential, he affirmed, that good, active committees discuss this matter with state officials if progress is to be made in other states. Showing the interest of highway departments, Mr. Quadland said 10 state departments helped develop the material which the A. A. N. released on highway landscaping.

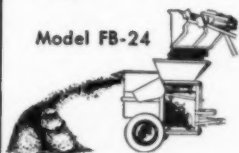
This subject, he believed, should be discussed at meetings of the

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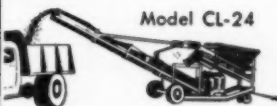
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chamber of commerce and Rotary and other such groups. To find out what actually will be done in a state as far as highway landscaping is concerned, he suggested to a wholesaler that he question the highway department, to find out what he might be growing for the purpose.

Mr. Porterfield was called upon to discuss the A. A. N. group insurance program, after which John Fraser III, Huntsville Wholesale Nurseries, Inc., Huntsville, Ala., explained the wage and hour case that affected his nursery, the decision on which was reported previously in the American Nurseryman. He related that a petition was filed for appeal on August 13 and the case might come up in six months or a year from now.

The outcome of the Stokes tax case, which will allow nurserymen to expense liners in the year in which purchased, was reviewed. Mr. Gresham, answering a question on the basis for membership in the A. A. N., stated that a person must be actively engaged in the nursery business for two years and must maintain a membership in a regional, sub-regional, state or sub-state group before he can become a member of the A. A. N. Dues, he added, are based on members' gross volume of business.

Management Conference

Replying to a request for more information about the management conference to be sponsored by the A. A. N., Mr. Porterfield said the dates are October 12 to 18 and will provide managers of nurseries with a good fundamental background of business principles which will help them operate a more profitable nursery. If the conference is successful, another will be offered next August. Mr. Porterfield stated that a minimum of 30 applicants will be required to stage the meeting.

Turning to the activities of the A. A. N. market development and publicity committee, Mr. Quadland related that the committee is building the values of nursery stock around the lives of people—at home, at work and on the highways. People are looking for values today, emphasized Mr. Quadland; therefore it is essential to educate people as to the values of nursery stock. The presentation concluded with a showing of the new A. A. N. film, "Basic Technique for Home Landscaping."

Concluding the Monday morning's program, Dr. J. H. Tinga, department of horticulture, V. P. I., delivered a talk entitled "Producing Quality Nursery Stock at a Profit." After plants leave the field their

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quality deteriorates. The stock is packed on a truck, and branches may be broken or balls split. When the stock reaches the salesyard and is displayed there, the quality goes down further.

The grower should start with desirable hardy varieties, and eliminate those that are not profitable. Regarding propagation stock, he said it is important to begin with disease-free stock. Next one should consider the soil. Profits can be increased by standardization of the soil used. For container stock, he suggested growers read the "U. C. System of Producing Healthy Container-Grown Plants," published by the University of California at Los Angeles, and "Plantainer Growing," released by the D. Hill Nursery Co., Dundee, Ill. Referring to field-grown stock, Dr. Tinga advised paying attention to the drainage. Among other factors for growing quality nursery stock are proper irrigation, the spray program, spacing of liners, root pruning and the fertilizing program.

Good business management, continued Dr. Tinga, is necessary to produce quality stock. If nurserymen can standardize and simplify their procedures, the manager can delegate more authority to others, turn his attention to more important matters and cut down his working hours. Putting the matter concisely, Dr. Tinga said profit depends on quality control, which depends on standardization, which depends on organization, which depends on the owner.

The best profit, he pointed out, does not always come from producing the highest-quality stock. Sometimes a better profit can be obtained from producing a medium-quality plant that permits better production. Dr. Tinga urged nurserymen to obtain cost figures. The manager and accountant of a nursery business are two of the most important executives, he concluded.

Southern Research

Starting off the Tuesday morning session, August 26, James Patterson announced that the workers in ornamental research had held a highly successful meeting the previous day. Eleven delegates from seven states were present and elected Dr. Tok Furuta, Alabama Polytechnic Institute, Auburn, chairman. Mr. Patterson believed the attendance of research workers would have been better had there not been a conflict in dates with the American Society of Horticultural Science meeting at Bloomington, Ind.

Reporting on the conference of research workers held during the

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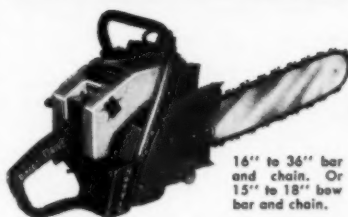
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S. N. A. convention, Dr. Furuta said he hopes to publish the findings of research workers in the near future. He stated that reports have been received from 11 states in 16 areas. These reports describe work on propagation of plants, evaluation of plants (adaptability to a certain state's conditions), lawns, weed control (six states), fertilization in the field and in containers, breeding of new plants (two states), container culture (seven states), marketing (six states), climate control (Texas), radio isotopes (Florida), insect control (two states), disease control (two states), nematodes, winter hardiness, mulches, leaf drop of azaleas and dwarfing rootstocks to be rooted in summer (Tennessee).

Weed Control

Dr. Furuta related that work in weed control in Virginia has shown granular herbicides to be safer than spray formulations. He stated that nurserymen are concerned about weeds in the field but not about weeds in adjacent areas. These should be mowed regularly to keep them from going to seed. Work on mist propagation is being conducted in Georgia, and Alabama Polytechnic Institute is conducting research on shipping methods for plants. Nut grass control is being studied at the Spring Hill experiment station in Alabama.

Dr. Furuta recommended that a committee of nurserymen be appointed to sit in on the research workers' conference during the S. N. A. meeting and also that the conference be held a day earlier, so that the research workers can attend the S. N. A. education program and meeting. Concluding his report, Dr. Furuta said he hopes the meetings of the research workers can eliminate duplication in research projects in the southeastern states and provide the machinery to release information to nurserymen.

Heard next on the program was a talk by George Rose, Henry Field Seed & Nursery Co., Shenandoah, Ia., entitled "Research and the Nurserymen." Beginning with a discussion on the pricing of nursery stock he concluded with a report on research activities of the A. A. N. Mr. Rose's talk will appear in full in a later issue of this magazine.

"Merchandising Nursery Products Through Garden Centers" was the subject discussed by Donald M. Hastings, Jr., H. B. Hastings Co., Atlanta, Ga. A summary of this talk, in which Mr. Hastings mentioned some of the layout features of his garden center and recounted some

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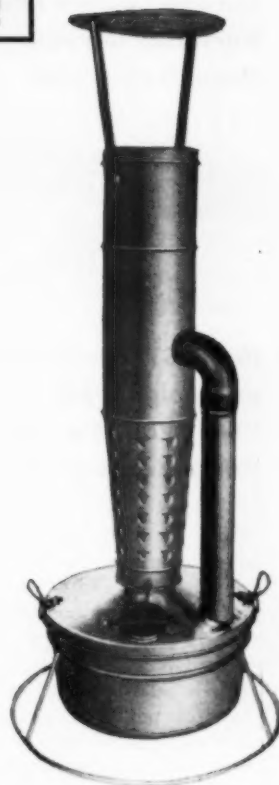
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of the merchandising theories of his firm, will also appear separately in a later issue.

Owen B. Schmidt, F. D. Moore & Sons, Narberth, Pa., pointed out the demand for good landscape nurserymen and the challenges which they must meet to be successful. A summary of his remarks will be printed in a subsequent issue. Mr. Schmidt concluded his presentation with a series of slides in color showing landscapes planted by his firm.

Starting off the afternoon session, Owen Wood took over as moderator of a panel on landscaping. First introduced on the panel was Richard Jones, who suggested that landscape nurserymen should emphasize ease of maintenance in selling and planting jobs. Ground covers can be used to permit mowing to the edge of the lawn and eliminate the need of trimming. Professor Beecher advised selecting trees which will fill a certain desired space at maturity. Many nurserymen, he believes, do not know the size to which a plant will grow at maturity.

W. L. Winn, Winn Nursery, Inc., Norfolk, Va., said that the city of Norfolk is making extensive use of hanging baskets and window boxes. The business community is backing the program and paying for it. Turn-

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ing to another subject, Mr. Winn asserted that small homeowners constitute a profitable market. Many want to spend \$50 or \$100, he said, and will spend more later. It is important to win a satisfied customer who will come back. He urged nurserymen to participate in home builders' associations. In this way, nurserymen will become better acquainted with contractors and contractors will better understand nurserymen's problems in landscaping.

Speaking last on the panel, Owen Schmidt stated that the landscape nurseryman cannot put himself in a price category with maintenance men. If the landscape nurseryman can do better work and sell better stock, he can charge for it. A landscape job is never complete, he stated; when a landscape nurseryman plants a job he is just giving it a good start.

Plant Health Important

C. R. Willey, director, division of plant industry for Virginia, pointed up some of the things which should be important to nurserymen in a talk delivered Tuesday afternoon, August 26. He said red spider causes the inspectors and nurserymen more trouble than any other pest. It is important, he emphasized, that nurserymen grow healthy plants and support the scientists doing research work to help the industry grow better stock. It has been found that better control of red spider in other crops is obtained on plants fed just the right amount of nitrogen.

A team of pathologists is working on the nematode problem in peanuts in Virginia, he stated, and believe that a certain type of nematode will survive to damage specific crops only in a particular type of soil. If this theory proves correct, the problem can be greatly reduced by using for peanut growers a type of soil that will not support the nematodes. This research might prove important to nursery growers also.

There are 45 different scale insects that occur in Virginia nurseries. Not all are found in one nursery and not all are found in any one year. But it is important that nurserymen continue their spray programs.

Mr. Willey believes that nurserymen should make a cooperative effort to prevent builders from giving the industry a "black eye" by planting inferior nursery stock. He also stated that nursery inspectors have seen much stock offered at retail outlets in containers or balls of soil that is not actually container-grown or regular B & B stock. These plants



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are dug out of rows where they were placed too close together, put into a container or a clump of soil, watered down and then sent to a retailer, who advertises the stock at bargain prices. Many times these plants have no roots. Under the law, said Mr. Willey, the nursery inspectors cannot condemn this stock but they look very closely for insects or disease, which, if found, will permit them to do so. It is important that nurserymen should know that such stock is being sold and that they should take action through the nurserymen's organization.

Mr. Willey called attention to nursery stock that is sold on a height-only basis. Some of it is the proper height, as advertised, but is thin and leggy. The first freeze that occurs, even though it does not kill this type of plant, will reduce it to a small leafless stem. It is the responsibility, said Mr. Willey, of both the retailer and wholesaler to see that this type of tender or weak plant is not offered for sale, for it is not worth the price.

Because of these problems there is a growing demand for legislation that will give the bureau of plant industry the authority to pass on plants for grade, maturity, hardiness, root condition, etc. Mr. Willey

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emphasized that neither his division nor the nursery industry wants such legislation. It is therefore most important that steps be taken by nurserymen to correct the situation.

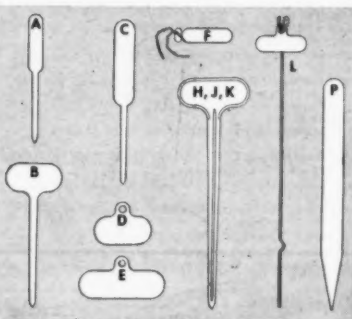
Moderating the final event of the education program, a roundup panel, John Wight called upon Dr. Tinga to speak on record keeping. The latter emphasized the importance of this

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- P—1" x 12" Vertical Stake

| Style | Quantity Bulk Prices per 1 M | | |
|-------|------------------------------|---------|---------|
| | 1 M | 5 M | 10 M |
| A | \$ 7.00 | \$ 6.00 | \$ 5.50 |
| B | 15.00 | 13.00 | 12.00 |
| C | 13.00 | 11.00 | 10.00 |
| D | 12.00 | 11.25 | 10.50 |
| E | 14.50 | 13.50 | 12.75 |
| F | 6.75 | 6.00 | 5.50 |
| H | 28.00 | 27.00 | 26.00 |
| J | 50.00 | 48.00 | 46.00 |
| K | 92.00 | 88.00 | 85.00 |
| L | 45.00 | 44.00 | 43.00 |
| P | 34.00 | 31.00 | 29.00 |

(Above prices are F.O.B., Milford, Michigan)

RETAIL PACKAGING

- Small quantities in polyethylene bags and attractively labeled. Write today for complete details on these profit-building packages!

SAMPLE ASSORTMENT \$1.00 (Postpaid)

10 each of A, C, D, F and 5 each of B and H. Tie-on wires included.

NO C. O. D.'S, PLEASE

LIFETIME MARKERS

DEPT. 7-A BOX No. 158
MILFORD, MICHIGAN

function of the nursery business as a guide in determining what stock to propagate. He believes that nurserymen must learn to love camellias a little less and to like bookkeeping a little more.

Next the moderator called on Don Hastings, Jr., to explain how customer traffic is directed in a garden center so that prospective buyers will see as much of the stock as possible. He advocated having a small sales area, putting a display of flowering dogwood on the far side of the nursery and having a patio in the center with chairs for customers' use. Visitors become discouraged if they have to look at too much, he added.

Speaking on the same subject, Arthur Lancaster, Coleman Nursery, Inc., Portsmouth, Va., advised not displaying materials at a dead end, but rather placing them where people can circulate past them. He advocated the use of spotlights at night, particularly when they can be trained on a colorful subject such as a pyracantha or a rosebush. At present, Mr. Lancaster said, Coleman Nurseries are not open at night, although the trend toward night business is increasing. His firm values repeat sales and therefore gives a 100 per cent guarantee, the loss being charged to advertising. He said that customers who bring back plants most often buy more.

Called upon next was Dr. R. J. Schramm, Jr., department of horticulture, University of North Carolina, Raleigh, who related that he had been working on a 3-year study on weed control now being published. He has been looking for a chemical or group of chemicals that will give 100 per cent control without damage to the crop. Of 40 chemicals tested alone or in combination, few have shown promise.

In order to control weeds the nurseryman must be a good housekeeper, he said. Sanitation comes first. Many nurserymen allow weeds in adjoining areas to grow high instead of keeping them mowed. Chemicals, he believed, are a crutch on which to lean.

There are many factors that affect the efficiency of chemicals in the control of weeds. First are climatic conditions (this was a bad year for weed control, he pointed out). Second is the type of soil; on a lighter soil less of the chemical is needed. Third, specific chemicals are more effective on certain plants.

Dr. Schramm related that in limited trials on medium to heavy soil, Geigy Simazine at two pounds per acre proved effective. This chemical

BOOKS for Nurserymen

Better Fruits and Flowers

For northeast and midwest. New, greatly enlarged edition. Illustrates in full color 430 items, ornamentals and fruits, popular in these areas. 96 pages in full color, 8½x11 ins. in size, with substantial cover. **\$4.00 each.**

Dependable Plantings

Northwest Plate Book. Developed for severe cold climate areas. 179 subjects in full color. 32 pages, 9x12 ins., with durable cover. **\$1.50 each.**

Flowers and Fruits

For the southwest. Illustrated in full color—320 items—64 pages in color with heavy durable cover. 8½x11 ins. in size. **\$3.00 each.**

Standard Nursery Catalog

48 pages and cover. Nicely illustrated. **50¢ each.**

New 1958 Evergreen Folder

36 popular items of narrow-leaved evergreens—in full color. **25¢ each.**

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31 popular flowering shrubs in full color. **25¢ each.**

Correct Planting Methods

A pocket-size, 48-page booklet. Very complete but concise information, well illustrated. Helpful in preventing claims for dead stock that cost nurserymen money. Sample, **10¢.** Write for discounts on quantities.

Write for Quantity Discounts.

Cash with order, please.

A. B. MORSE CO.
ST. JOSEPH, MICH.



FINEST QUALITY - PROMPT SERVICE
LABELS PRINTED TO ORDER

Write for samples, prices and discounts.

THE BENJAMIN CHASE CO.
DERRY VILLAGE, N. H.

Restore Your Soil to
Virgin Fertility—With

VITALOAM

LABORATORIES OF SOIL
& PLANT RESEARCH, INC.
LANCASTER, OHIO

MISTLETOE

Only the Best

Distributed through wholesalers
only.

SCHUSTER CIRCLE X RANCH
Comanche, Tex.

is applied to cleanly cultivated fields and does not kill weeds on contact. To kill small weeds, a low grade of fuel oil or cleaning fluid with PCP or CIPC mixed at the rate of 10 c.c. to each gallon of oil proves effective. Then Simazine can be applied.

Diuron, made by DuPont, or Karmex at the rate of one pound per acre applied twice during the growing season can be used as a pre-emergence weed killer. It can be applied right up to the base of the plants. Weeds, he pointed out, are excellent breeding places for insects.

Tour Richmond

A highlight of the convention was the bus tour of historic Richmond and surrounding areas. Of special interest was Capitol square, a park of 10 acres in the center of Richmond, containing the equestrian statue of George Washington. Around this monument are the statues of Patrick Henry, George Mason, Thomas Jefferson, Thomas Nelson, John Marshall and Andrew Lewis. Particularly noted by the nurserymen was the formal landscaping in this area, the various trees lining the streets and the well-planted homes in the vicinity. The Capitol building was designed after the Maison Carree at Nimes, France, by Thomas Jefferson, and in the rotunda is the Houdon statue of George Washington, the only one in existence today designed from life.

A stop at St. John's church, built in 1741, was enjoyed. This church was the scene of the famous revolutionary convention of March 20, 1775, when Patrick Henry delivered his immortal "Give me liberty or give me death" speech. In the surrounding yards are buried some of the oldest settlers in Virginia.

After viewing from the buses many of the other historic sites of the city, the conventioners concluded the tour at the Meadowbrook Country Club, where a buffet dinner was served. The nurserymen were prevented by rain from inspecting the formal gardens adjoining the country club, which was formerly a private estate.

Concluding the annual convention Tuesday evening, August 26, was the past presidents' banquet. Prior to the banquet all enjoyed a fellowship hour at which cocktails were served. Past presidents of the S. N. A. introduced at the banquet were Norman Nicholson, Decherd, Tenn., who attended the association's first meeting in 1899; Owen G. Wood, Bristol, Va.; Ed Chattin; Richard Jones, Nashville, Tenn.; John B. Wight, Cairo, Ga.; Tom Dodd, Sr., Semmes,

GOOD SPRAYS TO USE AND SELL



SCALECIDE

The superior dormant spray and a best seller for 50 years! Gives customers the safest and most effective way to kill scale, aphids, red mite and other overwintering insects.

| | Retail | Packed | Dealer |
|--------------------|--------|------------|---------|
| 1-pint can | \$0.95 | 12 to case | \$ 4.84 |
| 1-quart can | 1.39 | 12 to case | 10.00 |
| 1-gallon can | 3.25 | 6 to case | 11.70 |



for
better
spraying
and
selling



PRATT'S 72% CHLORDANE

This versatile insecticide concentrate gives customers an easy do-it-yourself way to control termites. Many uses for household and garden pests, especially ants. Contains 8 lbs. Chlordane per gal.

| | Retail | Packed | Dealer |
|-----------------------|--------|------------|---------|
| 4-oz. bottle | \$1.25 | 12 to case | \$ 9.00 |
| 1/2-pint bottle | 2.00 | 12 to case | 14.40 |
| 1-pint bottle | 3.59 | 6 to case | 12.92 |
| 1-quart bottle | 5.65 | 6 to case | 20.34 |



PRATT'S HOME & GARDEN INSECT SPRAY

A Lindane-Malathion Spray that is powerful and does a thorough pest-killing job both indoors and outdoors. Dilutes 1 to 200 for spraying fruits, vegetables, flowers, lawns and pets. Excellent for leaf miner control. Used also for mosquitoes, flies, ants, roaches, spiders, etc.

| | Retail | Packed | Dealer |
|-----------------------|--------|------------|---------|
| 1/2-pint bottle | \$1.50 | 12 to case | \$10.80 |
| 1-pint bottle | 2.25 | 6 to case | 8.10 |
| 1-quart bottle | 4.00 | 6 to case | 14.40 |



PRATT'S NEMAGON

An emulsifiable concentrate of Nemagon soil fumigant which controls nematodes in established turf and on roots of many vegetables, melons, flowers, fruits, shrubs and trees. Safe for pre-plant or post-plant treatment.

| | Retail | Packed | Dealer |
|----------------------|--------|-----------|---------|
| 1-pint bottle | \$4.00 | 6 to case | \$14.40 |
| 1-quart bottle | 7.00 | 6 to case | 25.20 |



PRATT'S SHOT GUN GARDEN SPRAY

The one-package spray assortment that can be sold to every customer. Contains such modern insecticides as malathion, methoxychlor and captan for the control of insects and disease.

| | Retail | Packed | Dealer |
|------------------------|--------|------------|---------|
| 1/2-lb. dust gun | \$1.29 | 12 to case | \$ 9.25 |
| 1-lb. canister | 1.59 | 12 to case | 11.45 |
| 3-lb. bag | 3.59 | 6 to case | 12.92 |

These products are also available in larger sizes.

Prices slightly higher west of Mississippi River

Write for prices on the complete Pratt Line.

B. G. Pratt Co., 189 Twenty-first Ave., Paterson, N. J.

NEW REVOLUTIONARY METHOD OF MILDEW PROOFING BURLAP NURSERY SQUARES

Extensive research has developed a new method of treating burlap so that it has the following beneficial characteristics not found in other methods of mildew proofing.

1. Has no toxic effects on plant life.
2. Contains no copper derivatives of any kind.
3. Leaves no sticky residue or odor.
4. The burlap is an attractive green shade.
5. Both rot and moisture resistance thus assuring longer life under extreme conditions.
6. Can be had in both 7 1/2 or 5-oz. burlap squares in any size desired.

Contains a G-4 emulsion which is dihydroxy-dichloro-diphenyl-methane. Samples, prices and any additional information will be gladly mailed upon request.

HARRY STOLLER & CO.

30-40 Maple St.

Chelsea, Mass.



**GIVES YOU SO MUCH MORE
FOR YOUR MONEY...**

only
\$129.95

W-W MODEL A
Gas or Electric Power
F. O. B. Wichita



**SHREDS • GRINDS • PULVERIZES •
MIXES • SCREENS • PILES •**

A SIZE AND MODEL



for Every Operation
The deluxe portable
Model 2-XS with 2 1/2
h. p. Briggs & Stratton
engine . . . \$189.50

The Heavy-duty Model 4-EV with
detachable elevator and grinder...
each with its own power, so it can
be used separately . . . \$782.40

No other compost grinder and soil shredder gives you so much for your money as this versatile, portable machine from the famous W-W line. It has interchangeable shredding bars and grinding screen to let you process your material the way you want it. Even handles dry leaves, phosphate rocks, small bones, etc. Screens fine enough for potting soil. Properly balanced for one-hand portability. Choice of gas or electric power. All prices f. o. b. Wichita.

AVAILABLE ON TIME PAYMENT PLAN
Write for complete literature and information

W-W GRINDER CORP.

2959-F N. Market

WICHITA 4, KANSAS

Quotes worth Note

excerpts from letters on file
in our office.

HELLER-GRO can give you the same results.

"Heller-Gro has helped to increase our business because of its excellent results and has provided an economical means of fertilizing trees and shrubs."

"In every respect Heller-Gro justifies the advertising sent to me. Mr. Heller did an excellent piece of research when he worked out his final formula for Heller-Gro. You have a prize in your 'growth substance'..."

"One example of our success with Heller-Gro was in the complete rejuvenation of a bed of pink snapdragons in one of the city parks, in one week's time. The bed looked hopeless before the application of Heller-Gro."

Complete copies of these and many other letters on request.



HELLER-GRO is a complete plant food, U. S. P. Ingredients 15-15-15 plus trace elements. Safe. Solution will not burn. Economical paste form, blended by special equipment. Dissolves completely in water for root or foliar feeding. Fast-acting and slower-release nitrogen for long growth response.

Write on your stationery for **FREE** trial sample.

HELLER GREENHOUSE LABORATORIES

Room 22

218 E. Pikes Peak Ave.

Colorado Springs, Colo.

BEGINNING IN THE NURSERY BUSINESS

By John J. Pinney

Articles reprinted from the American Nurseryman. Includes retail salesyards, landscape nurseries, garden centers, mail-order nurseries, agency nurseries, container stock, financing and keeping records. 64 p. (1958).....\$1.00

AMERICAN NURSERYMAN

343 S. Dearborn St.

Chicago 4, Ill.

Ala.; M. L. Harkey, Atlanta, Ga.; Henry N. Boyd, McMinnville, Tenn.; Henry Homer Chase, Chase, Ala.; W. C. Daniels, Charleston, S. C.; C. Elwood Stephens, Semmes, Ala.; A. S. Gresham, Jr., Richmond, Va.; James A. Stubbs, Atlanta, Ga.; Hoskins Shadow, Winchester, Tenn., and Jack Aichele, Charleston, S. C.

After a talk by T. Coleman Andrews, former director of internal revenue and president of the Richmond chamber of commerce, Charles G. Tennent, Tennent Nurseries, Asheville, N. C., the past president of Rotary International, was called upon to present the Slater Wight memorial award. As previously reported, the handsome bowl was awarded to Henry B. Chase. Presented to the two previous winners, A. S. Gresham, Jr. (1956), and Richard Jones (1957), were scrolls, since the bowl remains in the award winner's possession for only one year.

Heard with interest were the experiences of Mr. Tennent during his term in office as the president of Rotary International. He reported that he had visited 30 countries, traveled 80,000 miles and crossed the equator 10 times. He said he planted many memorial trees in his visits. A. J. Shoosmith, Southside Nurseries, Richmond, cochairman of the convention with A. S. Gresham, Jr., introduced the various committee chairmen and the new S. N. A. officers. Dancing followed for the remainder of the evening.

Other entertainment features included a fellowship hour Sunday evening, August 24, at which the conventioners were guests of the Virginia Nurserymen's Association. This event was followed by a buffet dinner, and educational films were shown later.

Monday evening, August 25, there was dancing at the John Marshall hotel after the nurserymen returned from the bus tour.

NURSERY SHIPPING GUIDE

[Continued from page 16]

by calling back shortly after delivery is made.

By issuing an inspection report, the carrier does not admit liability. The agent merely makes a statement as to arrival condition, date of shipment, date of arrival, package type and other pertinent information. Without this inspection report, however, claim for loss cannot be made.

Your claim for reimbursement, accompanied by your inspection report, must be filed by you with the delivering carrier. Your carrier will provide you with the necessary

Screen Type PICKET FENCE

... ADDS PRIVACY TO YOUR LANDSCAPING

Most homes need special screening against unsightly views, around play areas, swimming pools or for containing small animals. Form nice backgrounds for plantings. Dowel construction—easy to assemble. Stringers, posts and half-round palings all peeled, white cedar. Shipped K. D. or in 8 ft. assembled panels. Write for catalog giving heights, etc.



Also Catalog shows Old English Post and Rail Fences — 2 to 5 rail — all types. Have installations throughout U.S.A.

Gates, Lanterns, Rustic Tables and Settees.

Shipped from Toledo or our W. Va. Yards.

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PROMPT
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Special Shade Fence — 58 to 60 per cent Shade

Standard Snow Fence — 43 to 46 per cent Shade

Write for
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blanks and will assist you in making out your claim. File this claim as soon as you can determine the extent of your loss.

Even though your shipment arrives damaged, it is your responsibility to protect it and to salvage as much of it as possible. To facilitate payment, be sure to indicate the amount of salvage realized. Keep a duplicate copy of your claim file and be patient. Claims of this type may take several months to process.

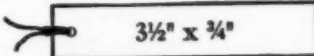
If your shipment arrives with frost in it, there will be little or no loss if you handle it properly. Do not open packages. This is imperative. Place in a cool area, such as a cellar, but where there is no danger of additional frost or other freezing. If possible, cover packages with soil, sawdust or any other material that will exclude air.

Allow stock to remain until all

NURSERY MANUAL, by L. H. Bailey. Standard manual on propagation. 470 pages (1920) **\$6.75.** American Nurseryman, Chicago 4, Ill.

ALUMINUM TAGS

(All-weather)



- Patented cardboard backing permits easy embossing with ordinary lead pencil.
- Heavy eyelet. Copper-wired.
- Attractive silver Aluminum, backed with yellow cardboard.
- Inexpensively priced:
1000 for ... \$16.00 250 for ... \$6.00
500 for ... 10.00 100 for ... 3.00

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Imported Holland

PEAT MOSS



Roots screened out

You get the
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Genuine BOSKOOP
REEDMATS

**HOLLAND BURLAP
SQUARES-3 Grades**

- Boskoop
- Standard
- New heavy COMPACT PINUP

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MOON

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SAVING THE MOST time and temper COAST TO COAST REDHEAD CAN SHEAR



cuts ALL cans

- CLEANLY
- SWIFTLY
- SAFELY!!

Retail: \$7.50

Nursery Price:

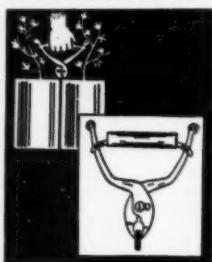
1 or 2, each. \$ 7.00

3 for 18.75

Postage extra.

Pkg. wt., 4 1/2 lbs. each.

HANDY-MAN GRIPZIT



• SAVES

wear and tear
on cans and
fingers.

Retail: \$3.50

Nursery Price:

1 only \$3.20

2 or more

\$2.90 each.

Postage extra

Pkg. wt., 3/4 lb. ea.

Both of these tools have been copied.

Look for this "Handy-Man" label. Be sure of getting the genuine — buy AYER-LINE from our authorized jobbers. They can save you freight and time.



From Maine south through Virginia, west through Pennsylvania and West Virginia, write A. H. GUTBROD CO., Box 96, Irvington, N. J.

From North and South Carolina, Georgia, Alabama and Florida, write COLUMBIA NURSERY SUPPLY CO., Box 5068, Columbia, S. C.

From Illinois, Indiana, Ohio, Kentucky and Tennessee, write A. M. LEONARD & SON, Piqua, O.

From Kansas, Missouri, Oklahoma, Arkansas, Louisiana, Mississippi and Texas, write VERHALEN NURSERY CO., 12140 Harry Hines Blvd., Dallas, Tex.

From Unnamed States Write to:

Ayer-Line INDUSTRIES, INC.

709 Jones St. BERKELEY 10, CALIF.

Mention The American Nurseryman when you write.

frost is out of the container. Two or three weeks is not too long. The stock will keep safely even longer. After all frost is out, the stock can be unpacked, stored or heeled in, and no injury will have resulted from the freezing.

TEXAS CONVENTION

[Continued from page 10]

four main garden units for which the homeowner-gardener buys are the lawn, the rose bed, the garden and the shrub bed.

Garden centers should look like garden centers, not like heeling-in yards. They should be distinguished by fixtures, layout and design. Sales force training is important. It has been found possible to increase sales of garden supplies by 25 to 30 per cent by a training program for sales personnel. Salespersons should be taught to understand what the customer wants to do at home and to supply the customer with the best products for the job. The nurseryman has the knowledge needed for selling gardening goods, but he must learn better merchandising and retailing techniques.

Workshop Session

At the conclusion of Mr. Franklin's address, a workshop on public relations and cooperative advertising was led by Sterling Cornelius, Cornelius Nurseries, Houston. He outlined the steps in the recent marketing and publicity program undertaken by the Houston Landscape Nurserymen's Association. The first project these nurserymen attempted was a cooperative marketing of an association brand fertilizer, which resulted in sales four times greater than they had expected and an overall increase of 30 per cent in fertilizer sales for the members involved. Other products, such as special plant foods, insecticides and fungicides, are now being considered for similar marketing.

Appearing on this panel also were Carl Story, of the advertising firm of Bozell & Jacobs, and James Chambers, Goldthwaite's Texas Toro Co., Dallas. The recognition by the public of the nursery association emblem was stressed.

The last portion of the garden center program consisted of a "brainstorming" session where all nurserymen were given an opportunity to make suggestions on increasing sales and getting the customer into the nursery or garden center on a year-round basis. William Biggs, Wolfe Nursery Co., Stephenville, was moderator. Off-season sales, guarantee policies, maintenance and follow-up

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PLANTING LINE



No tearing—no stretching—rust-proof—spacing on line. Lines 200 and 400 ft. long in stock, spacing 12, 15, 18, 24, 30, 36 and 48 inches; make lines to meet your requirements. Order now for fall planting. State in your inquiry length and spacing needed.

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Performance and Profit!

Use and sell new 15 and 30 gal.

PARAGON Power Sprayers

for a two-fold profit-boost in '58!

One-man operation ...

piston-pump over solution, trouble-free ...

new streamline-design tank ...

mechanical agitator, no settling ...

low-slung tank prevents upsetting ...

high velocity mist to 25 ft. stream ...

1 1/2 HP. 4 cycle gasoline engine ...

truly low-cost! Write for complete line catalog.



The Campbell-Hausfeld Co.
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CAMPBELL-HAUSFELD

To Prevent Winter Kill
Your Customers Need
the

ROSS ROOT FEEDER

Ross Daniels, Inc., 207 Court, Des Moines, Ia.



customer contacts were the main topics under discussion.

The keynote luncheon was held Monday in the mezzanine ballroom of the Driskill hotel. Joseph E. Burger, retired vice-president and sales manager of the Cornell Seed Co., St. Louis, Mo., spoke on "How To Get Better." Mr. Burger stated that a businessman's greatest competitor is himself, and that when he stops getting better he stops being good. He said the only thing that offsets price objection is a quality product or quality services. Success in any enterprise requires the right product, methods and men.

We are all salesmen, stated Mr. Burger, whether our product is merchandise, service or professional knowledge, and a true salesman is one who can sell without cutting the price. The five qualifications of a successful salesman are character, industry, ability, courage and personality.

In the afternoon the nurserymen were driven in a bus caravan to the municipal boat dock on Lake Austin, where they began a 15-mile boat trip to the head of the lake for an evening of entertainment at Green Shores resort. Swimming, a barbecue supper and dancing were enjoyed by all the nurserymen and their families. A floor show provided additional entertainment.

Tuesday morning's educational session was devoted to landscape design and plant material. This portion of the T. A. N. convention program is annually sponsored by the Texas Landscape Association in an effort to bring before the landscape nurserymen of Texas the latest in contemporary design and use of plant materials. Otto E. Scherz, president of the T. L. A., presided at the session.

The first speaker was H. Durward Thompson, Corpus Christi, past president of both the T. L. A. and the T. A. N. and a well-known landscape architect and plant materials expert in the golf area of Texas. Using colored slides, Mr. Thompson delivered a talk on "Landscape Design and Plant Materials in Texas." The slides showed landscaping jobs in several geographical sections of Texas. The residential, institutional and industrial installations illustrated modern design problems and how they were solved, with special emphasis on adaptable plant materials. Mr. Thompson used a number of his own slides plus slides contributed by 10 other members of the T. L. A.

Appearing next was the guest speaker, Prof. L. R. Quinlin, head



the NEW sta-moist PLANTER by UNION

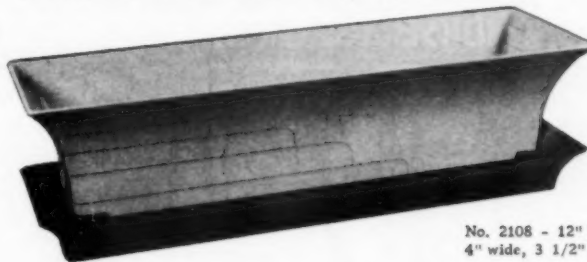
No. 2105 5 1/2" square 4" deep
No. 2106 4 1/2" square 3 1/2" deep

Florists and growers everywhere find that Union's new line of Sta-Moist Planters makes sales easier! Their gay two-tone colors and pleasing design make them the best looking plastic planters on the market today. Available in several sizes.



No. 2107 - 4 1/2" wide
7" long, 3 1/2" deep

A special well in the bottom furnishes a constant supply of moisture without drowning the plants. Colors: Red, Kelly Green, Moss Green, Ivory, Sandalwood or Fruitwood with Black Snap-on Saucers.



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There's a Union Plastic Pot for every growing need.

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Peat Moss

Seed Flats

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Plantainers

Polyethylene Film

One-Gallon and Four-Gallon Cans by the Thousands

THE NEW "45" ALL-PURPOSE ASPHALT PAPER POTS IN ALL SIZES, MANUFACTURED AND DISTRIBUTED.

A Complete Line of Truck Farm Containers.

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Phone: SWarthmore 6-2342

East Paterson, N. J.

Burlap Squares

Snow Fencing

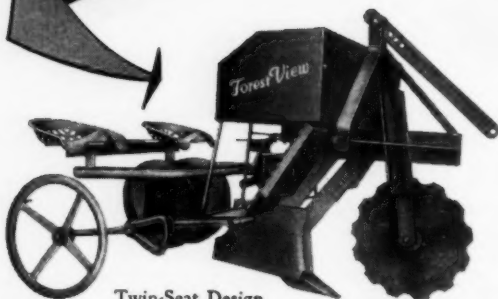
Nurseries

Wilt-Pruf

Reed Mats

ForestView TANDEM PLANTER

... cuts tree planting time and costs



Twin-Seat Design

The most rugged, versatile tree planter ever built, the ForestView Tandem Planter assures fast, low-cost planting of seedlings, lining-out stock, potted material or other small plants. Lever controls adjust to even the most rugged terrain. Newly designed trencher shoe plants potted material and liners without damage—spaces, plants smoothly and accurately without churning up soil. Precision alignment of stripper bar prevents clogging by weeds and undergrowth. Commercial steel construction throughout—ball-bearing mounted heeling wheels.

- Exact, positive spacing with exclusive timing wheel
- Correct planting depth on any terrain with special contour lever
- Exclusive, scalloped coulter wheel for fast, easy cutting of sod, etc.
- Finest trencher shoe made—insures maximum survival.

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hole-a-minute tree planting — sitting down!

FULL YEAR GUARANTEE

POWER GEARS GUARANTEED 10 YEARS

16", 18" OR 24" AUGERS

24 HOUR FACTORY SERVICE ON ALL PARTS

SMALLER AUGERS AVAILABLE 6", 8", 10", 12" AND 14"

SAFETY SHEAR PIN ABOVE GROUND

PATENTED BEARING AT DIG POINT FOR POSITIVE AUGER STRENGTH

FISHTAIL DIGGER POINT — FAST PENETRATION

Territories open for dealers in landscape and nursery products

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The leading German brand.
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PROTECT YOUR CROPS

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SPRAY Low-Cost Magic Circle Repellent. Creates barricade against Deer, Also Beavers, Woodchucks, Sheep, Skunks and Raccoons in some cases.

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of the landscape design curriculum at Kansas State College, Manhattan, who spoke on "Landscape Design." He also used slides with his talk to illustrate the use of plant materials in good landscaping.

Professor Quinlin stated that of the 20 accredited landscape design schools in the United States, nine of them are in agriculture departments, 10 are in architecture and one is in business administration. These all more or less reflect in their curriculum the particular school that administers them, but all admittedly give the landscape architect insufficient training in knowledge and use of plant materials. Too much emphasis, according to Professor Quinlin, is being placed on architectural features and not enough on the overall planting design.

A curriculum in landscape design should cover five or six years, he stated. Since such a full course and knowledge in so many fields of study are necessary in training a landscape architect, it is almost impossible to complete the program in four years of residence study.

Planting design is the use of plants in the design created by the landscape architect. There should be a specific reason for the use of every plant in the design. The factors to be considered in plant selection and use are form, texture and color, and form is by far the most important. Often too much emphasis is placed on color, and an unusual plant is not always the most beautiful.

Evergreens Overemphasized

The speaker felt that there has been a trend in the past decade toward the use of too many coniferous and broad-leaved evergreens in the landscape. More deciduous trees and shrubs should be emphasized, and more effective designs created with them. They provide more interest in flowers, fruit, twigs, silhouette and shadow patterns than do the other two plant groups.

Not all plants in the landscape planting are considered permanent, and clients or customers should not be led to believe that they are permanent. One should strive to create a design that presents a pleasant picture from any viewing angle and at any season.

With so many different types of architecture in current use in America, any landscape style that satisfies the homeowner's desire and need can be used. Often the landscape architect is called upon to screen or hide the architect's mistakes, but, on the other hand, he should avoid overplanting, crowding and covering

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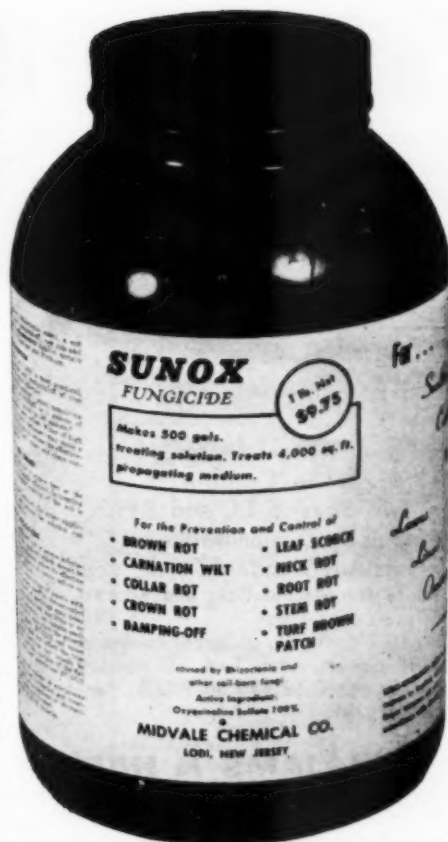
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good architectural features, striving always for simplicity and good accent use of plants.

Professor Quinlan urged his listeners to be original in their designs and to try new plants and new effects as much as possible without jeopardizing the over-all design or plan. He stated that a more natural style of landscape is needed in the design work of today.

Ladies' Luncheon

At noon on Tuesday the ladies were entertained at a special luncheon and fashion show at the beautifully landscaped Sheraton-Terrace motel, transportation being furnished by buses. Mrs. Gene Howard presided at the occasion. Special entertainment consisted of a humorous reading by Mrs. Marye Benjamin. A showing of the latest fall fashions was presented by Goodfriends department store, which also offered a \$50 gift certificate as a prize.

At the same hour the men met for a bachelor dinner in the Capitol ballroom of the Stephen F. Austin hotel, after which a general business session was held. The guest speaker was H. C. Pittman, assistant vice-president, Austin National bank, who spoke on "Where Is Your Enthusiasm?" His talk concerned the

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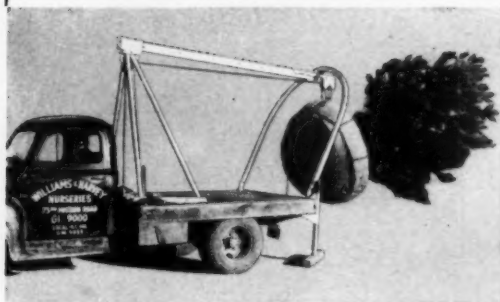
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Before the general session, a brief meeting of region V of the American Association of Nurserymen was held, presided over by the regional director, C. J. Lauden, as well as a meeting of A. A. N. chapter 25, conducted by J. B. Fitzpatrick, director. A. A. N. delegates for the states included in region V were announced and introduced.

President's Report

The general session was presided over by L. A. Dean, T. A. N. president. In his report to the convention, President Dean spoke of a successful year in office and expressed appreciation to the hard working regional officers. He also praised the Texas department of agriculture for its cooperation with T. A. N. representatives in preparing a revised proposal for the state nursery inspection law.

Executive Secretary B. R. Fulgim stated in his report that the finances of the association are sound. He announced that the association headquarters were recently moved into larger and more convenient offices at the Commodore Perry hotel. Over 60 new members have come into the association since the 1957 convention, and 12 additional applications were ready to be voted on at the board meeting after the convention.

He stated that the T. A. N.-sponsored shrub identification contest conducted at the annual 4-H round-up at the Agricultural and Mechanical College of Texas, College Station, is now completely reorganized and should prove to be one of the best public relations programs for the association.

Plans are being formulated for the annual presentation of three separate short courses for nurserymen in cooperation with Texas A. and M. College, on the subjects of nursery management, landscaping and garden centers. This would mean adding a new short course on garden center matters to the nursery management and landscape courses, which were successfully conducted as separate events in 1958.

The T. A. N. is now working on a program with the extension service of Texas A. and M. to provide a full-time extension specialist in nursery management in Texas. It appears that appropriations will be made, that this item will be placed in next year's budget and that the job will be filled.

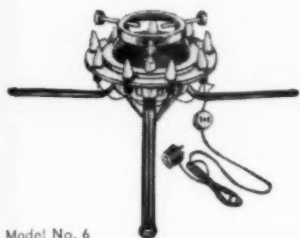
Frank S. Cornelius, chairman of



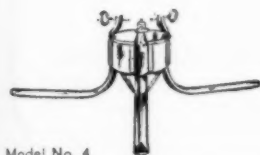
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the T. A. N. market development and publicity committee, who was called upon for a report, recommended that the association purchase a copy of the new A. A. N. film, "Basic Technique of Home Landscaping," that the T. A. N. also adopt for its publicity promotion slogan "Planting Time Is Any Time—in Texas" and that concentrated and organized efforts be made toward promoting and encouraging highway beautification and landscaping in Texas.

Charles Chapman, chief of the plant quarantine division, Texas department of agriculture, Austin, spoke on "Recent Plant Quarantine." He discussed the imported fire ant quarantine and explained the advantages of having a uniform federal quarantine rather than quarantines set up by individual states.

He stated that six counties in Texas are included in the quarantine area and two additional infested counties will be added shortly. He anticipated that, with the aid of federal funds, real progress will be made soon in eliminating the pest in Texas. Heptachlor at the rate of two pounds technical per acre is being used at present for control.

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noon business session was Dr. Richard P. White, executive vice-president of the A. A. N., who gave his "Report from Washington." Quoting figures gleaned from House and Home magazine and other publications, he stated that this year's figure of over 1,000,000 housing starts might well reach 1,750,000 by 1961 or 1962. With larger families now the rule, the turnover on houses approaches 12 years, whereas it used to be about 15 years.

Dr. White stated that the entire program of the market development and publicity committee is geared to the protection and promotion of the retail planting market in three areas—home grounds, industries and highways. The future of the home grounds sales will be increasingly bright because of the maturity of the nation, bringing with it a desire for the finer things of life; increasing population, and expanding incomes.

He mentioned in connection with industrial landscaping the series of films being introduced on "Industry on Parade." The first of these films presents A. A. N. industrial award winners, and the second film, "Designed for Working," has an A. A. N. tie-in. He also discussed the interstate highway program and pending legislation at some length.

The social highlight of the convention, the past president's banquet and dance, was held Tuesday evening in the Capitol ballroom of the Stephen F. Austin hotel. President Dean was master of ceremonies. Miss Patricia Lewis, Queen of the 1958 Texas Rose Festival, was introduced and presented a bouquet of roses to Mrs. Dean. The entire ballroom was elegantly decorated with Tyler roses, arranged in large bouquets atop stemlike standards, simulating beautiful tree roses.

Arp Award Presented

The annual presentation of the Arp award was made by Dr. White, recipient of last year's award. This award, a huge silver bowl, inscribed with each winner's name, is symbolic of outstanding achievement in the nursery industry and is presented each year by the T. A. N. to the person judged to have contributed most to the association and the Texas nursery industry. This year's award went to Frank S. Cornelius, Cornelius Nurseries, Houston. A past president's plaque was presented to Mr. Dean by the immediate past president, R. C. Aldridge.

The entertainment of the evening consisted of music by Bill Prather's Hi-Fi's and a floor show. Dancing

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was enjoyed until the morning hours. Several valuable prizes were given at the dinner. Included were a 5-day all-expense trip for two by air to Monterey, Mexico; a portable TV set; a riding power mower; a barbecue set; a set of steak knives, and cash.

The last general session for T. A. N. business and the final scheduled event of the 21st annual convention got under way at 9 o'clock Wednesday morning in the exhibit hall meeting room, L. A. Dean presiding. The main item of business was the acceptance of the revised Texas nursery inspection law, which is to be enacted at the next general session of the Texas legislature. It was accepted by the nurserymen with one change, that of the inspection fees. As accepted, the fees would be on a sliding scale of \$10 to \$25 at the discretion of the commissioner of agriculture.

Meets Nursery Needs

The revision of this act is considered by the nurserymen as a step toward repeal of obsolete sections of the present law and meets present needs for the expanding nursery industry. The A. A. N. horticultural standards were adopted by the body as the standards for the Texas nursery industry and the T. A. N. The obituary service was given by Louie L. Hulme, Fort Worth, editor of the Southern Florist & Nurseryman.

The new officers for the Tanners were announced by Gene Howard, and these young folks were presented to the assembly. They were Linda Pletcher, Harlingen, president; Leonard M. Riggs, Jr., Longview, vice-president; Patty Barron, Odessa, secretary-treasurer, and Hank Howard, Austin, sergeant at arms.

At the completion of business, the gavel was turned over to the new president, John Van Valkenburgh, who adjourned the final session of the convention after a brief address. At noon the new T. A. N. officers and board members convened for their customary postconvention luncheon and meeting in the Commodore Deck Club.

MONTANA-WYOMING MEET

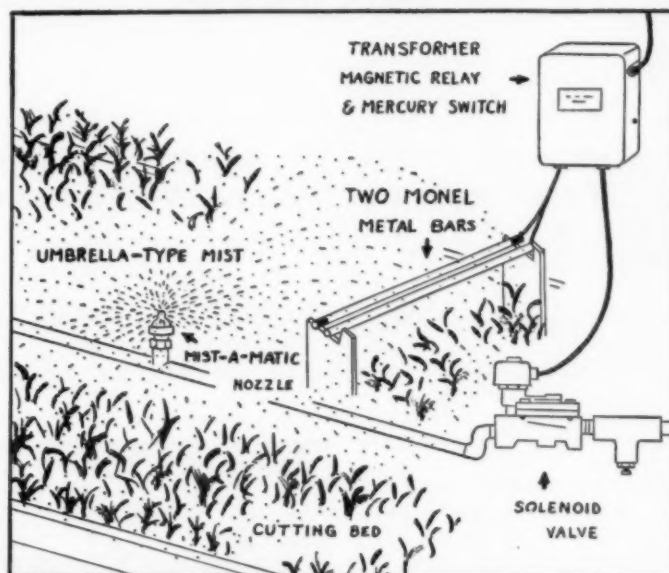
[Continued from page 18]

the station were seen. Over 100 acres devoted to 1,300 varieties of the commoner fruits were toured. The group noted many little known and unnamed varieties found today perhaps only at the large Cheyenne station. It was felt that to obtain more attractive ornamentals for the midwest more work must be done.

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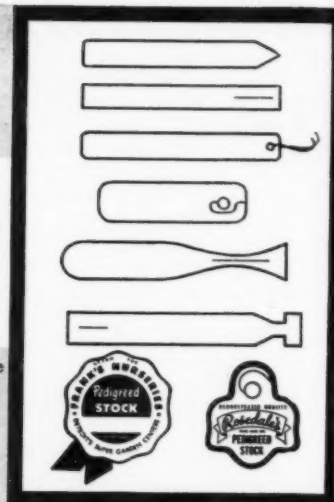
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The social highlights of the annual meeting were the proceedings Thursday evening. Mount Arbor Nurseries, Shenandoah, Ia., with the personal supervision of its sales representative, L. C. "Jens" Ihrke, were host at a hospitality hour preceding the annual banquet.

William Hawley officiated as the toastmaster at the banquet, and after a delicious steak dinner he introduced Prof. L. R. Quinlin, Kansas State College, who gave an illustrated talk on landscapes in Europe.

Friday morning, August 29, the two groups again divided, and the turf group, under the supervision of G. B. Brown, toured golf courses in the area, visiting Francis E. Warren air force base golf course, Airport golf course and the Cheyenne Country Club golf course. A round-table discussion was held on local turf management problems of particular interest to greenskeepers.

The nursery group under the direction of Dr. Hildreth, toured the perennial and hedge trials. After inspecting the beds of perennials, the group spent considerable time in the dianthus trials, where a hardy perennial dianthus is being sought for the area. The majority of crosses have acted as biennials, and this was pointed up by the 3-year dianthus plantings which showed survival was limited. A number of beautiful unnamed seedlings were observed.

The large hedge trials included native and hybridized material. Pin-yon pine, Polish privet and Swedish privet showed considerable merit, and a hedge of thornless honey locust, along with Forestiera neomexicana, seemed to impress the group.

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tiful medium-sized trimmed hedge with compact growth and red berries. Concluding the morning's program for the nursery group was an illus-

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trated talk on planting design by Prof. L. R. Quinlin. Professor Quinlin stressed that landscape design is an art which should be ranked beside the other great art forms. No other fields can compare with planting design, because the individual is not working with stationary, permanent structures; he is working with material that changes from season to season and year to year. He stressed that color should be the last thing to look for and form is by far the most important character of planting design; texture is a secondary factor. Dr. Quinlin encouraged the use of multiple-trunk trees and small trees to be in scale and balance with a garden or building.

Dr. Quinlin warned against selecting plants because they are unusual and cautioned against using too many conifers in plantings, stating they do not have four things deciduous plants possess — flowers, fruit, colored twigs or winter color. Conifers, having needles, give the impression of lines which are not so restful as the broad-leaved deciduous plants and evergreens.

Illustrations that accompanied his talk pointed up planting mistakes and showed some desirable planting designs for contemporary architecture.

The group then adjourned to the

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Cheyenne Country Club, where it joined the turf group and its families for a delicious smorgasbord. The luncheon was followed by a short business session conducted by the retiring president, Morres P. Morgensen, Casper, Wyo. Legislative committees were appointed from Montana and Wyoming to work for corrective legislation in nursery licensing, inspection and administration. The president also urged all members of the association and others interested to write their congressmen, encouraging the appropriation of additional funds for horticultural research on the state and national level, particularly at the Cheyenne and other experiment stations in the area. Election of officers, as noted earlier, also took place at this time.

The afternoon session was conducted at the field station, with Harry Nix leading the question and answer session on insect control. He recommended liquid dieldrin for grasshopper control and said that lindane was faster acting on the adult pests.

The meeting was concluded with a demonstration on chlorosis control in trees and shrubs. An injection method was demonstrated and found best in winter treatment of trees. Iron citrate was used in holes drilled one and one-half inches into the trunk, holes were spaced three inches apart and one-half teaspoon of iron citrate to the hole was used. To determine the number of holes to drill per tree, it was suggested that the diameter of the trunk be divided by two or three. Liquid application of iron sulphate at the rate of two pounds to 100 gallons of water, plus a wetting agent, was also shown.

ALABAMA SHORT COURSE

[Continued from page 14]

ticulture, Southwestern Louisiana Institute, Lafayette, La., discussed the role of chemical weed control in the growth of woody plants. The grower should begin with a planned program. The use of chemicals is not the final answer, any more than the use of a hoe or grease, and nothing will work 100 per cent all the time. Usually more than one method will have to be used for effective control.

For soil fumigation, Dowfume, vapam and Pre-Plant (mylone) are effective. The soil must be in the proper condition or the treatment will be ineffective. The cost of each of these treatments amounts to approximately 1 cent per square foot.

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material is activated after contact with the soil. It has been possible to treat the land and not worry about spraying the leaves of the plants, as no damage has occurred. In a sandy soil, the rate of two pounds per acre was recommended. Stunting of shallow-rooted plants such as ligustrum, dogwood, fig and nandina can be expected from the use of Crag Sesone. Granular chloro IPC and Eptam also have use in controlling weeds.

Dr. Foret recommended that small trials precede large-scale applications, in order to be sure of the use of the materials at each nursery. Since many different plants are being grown at each nursery and the tolerance of the plants to chemicals differs, chemical weed control in the nursery is a difficult operation.

For post-emergence weed killers, Dowpon (dalapon) at the rate of 10 pounds per acre has been effective against grasses. For soil sterilants, Novon, Simazine and Karmex have been effective. These last-named materials are used to suppress all plant growth.

Dr. Ray Self, in charge of the ornamental horticulture field station of A. P. I. at Mobile, stated that many factors other than diseases can

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produce symptoms that appear like diseases. Disease control should be a matter of prevention, not control. This involves the use of disease and nematode-resistant varieties, seed or bulb treatment, transplanting before crowding occurs, proper leveling of the land to prevent water flooding of the beds and a good spray program.

During the discussion of the garden centers, L. L. Aldridge, Aldridge's Garden Center, Birmingham, Ala., stated that the garden center is now the principal outlet for nursery stock. Some of the problems of the garden center operator are location, cost of construction, display of merchandise and qualified personnel to answer the telephone and give advice. He stated that only fast-moving merchandise should be stocked.

Don Hastings, Jr., declared that it will be necessary to teach the public to love and care for plants to offset the use of artificial plants in the future. Quality plants are absolutely necessary, and the grower should see that the garden center receives them. Attention to the appearance of the container is important, in order that the plants may be displayed as attractively as possible in the garden center.

A. E. Grazer, Memphis, Tenn., branch manager, California Spray-Chemical Corp., Richmond, Calif., presented an interesting program on garden centers.

Ed Daugherty, landscape architect, Atlanta, Ga., began the sessions September 10 with a discussion of landscaping. Landscaping is the arrangement of plants in a logical manner. Playgrounds, recreational areas, highways and buildings will be places for the continued use of plants. More attention should be given to beautifying industrial back yards. Landscaping techniques are changing, with a greater use of plant masses, dwarf plants, statuary, paving and planter boxes apparent. Plants must be adaptable to the situation and require little maintenance. The trade should be prepared to take advantage of the predicted 4-day working week.

Ben Pace, propagator and greenhouse manager, Ida Cason Calloway Gardens, stated that hanging baskets and planters can be used to brighten a spot in the landscape. He felt that the planters should be made of wood, stone, metal or concrete. Many attractive planters can be made when the help is not otherwise busy.

More attention should be given to the use of native plants as tub

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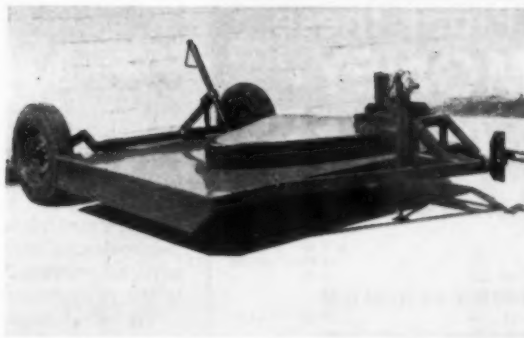
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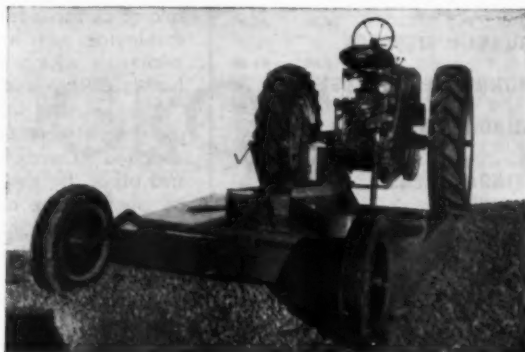
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plants. The public is not able to collect plants from the wilds successfully, and there seems to be a ready demand for more native materials.

The Future

The sessions ended for the morning with glances into the future. The film, "People, Products and Progress: 1975," made by the Chamber of Commerce of the United States, was shown. Tok Furuta moderated this panel. The prediction for the future is bright and the trade's opportunities are endless, provided it is willing to plan for them.

The last session was devoted to lawn problems. The speakers included pathologists, nematologists, entomologists and agronomists from the agricultural experimental station. Proper preparation was stressed by all the speakers as a means of avoiding trouble. After proper preparation, good healthy grass is the best insurance of trouble-free lawns.

NATIONAL ARBORIST MEET

[Continued from page 12]

employee loyalty. An adequate safety program should (1) reduce the number of accidents; (2) reduce cost of business operation; (3) improve production; (4) decrease property damage, and (5) increase community

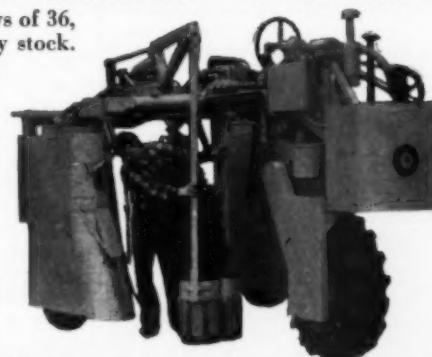
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prestige of the company. Safety meetings for all employees should be held at least once a month.

To reduce the number of on-the-job accidents, each job should be carefully planned by the supervisor, and proper supervision should be given while the work is being performed. He said equipment and tools should be maintained in good working condition, and that the company should insist that reasonable care be exercised by the workmen in the performance of their duties.

The final paper of the program, presented by Frank E. Kowalk, Farrens Tree Surgeons, Inc., Jacksonville, Fla., was titled "Selecting and Training Employees." Mr. Kowalk told of methods his company used in employing men and cited some experiences which led to changes in both selection and training.

He said that in the Farrens company men were formerly hired and assigned to work crews by the central office, by the area managers or by the foremen of the crews in the field. His company has found, however, that selection and employment of men by the foremen produces the best results. Too often men who had been hired by the central office or the area managers and provided with funds for transportation or suitable clothing failed to report for work. In addition, when a foreman hires a new man, he feels a certain amount of responsibility in teaching him to perform the work in a creditable manner.

Factors that should be considered, Mr. Kowalk said, in selection of new employees include alertness of the applicant, his physical condition, his education and his fitness for the job. Often a man is physically able to do the work, but is handicapped by family ties or financial matters, or for other reasons cannot be contented in doing tree work. The Farrens company prefers to hire men between the ages of 18 and 21 years, since they generally are adaptable to conditions common in tree service work.

With reference to training employees, Mr. Kowalk said schooling of one week's duration was formerly given, in which the company paid the employee's room and board. Basic training was taught in these schools, including climbing, use of ropes, tying of knots, pruning methods and first aid. The schools have been discontinued, he said, at least temporarily. If they should be re-opened, training will be given only to men who have been with the company for two to four months and who have proved that they want to continue in arboricultural work.



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